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**MALCOLM
PIRNIE**

**Final Report
Data Validation**

FOR

Pigseye Landfill

Sample Delivery Groups: EMT79 and MEKY79

**Submitted To:
Minnesota Pollution Control Agency**

Submitted By:

**MALCOLM
PIRNIE**

*Environmental Engineers, Scientists & Planners
Minneapolis, Minnesota*

November 1992
0871-29-3100

November 3, 1992

Mr. Michael Loughran
Ground Water and Solid Waste Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155

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MPCA, Ground Water
& Solid Waste Div.

Dear Mr. Loughran:

Malcolm Pirnie is pleased to submit the Data Validation Report for Analyses of Samples Collected at the Pigseye Landfill Facility (enclosed). This report covers the findings of the data validation performed on sample delivery groups EMT79 and MEKY79 associated with this project.

This report conforms to the requirements specified in the Work Plan for CLP Laboratory Data Validation, June, 1991 (Malcolm Pirnie), and to MPCA Work Plan MP-DV-ATA-01.

Should you have any questions or comments regarding this report, please contact me or Charles Michael at 591-1394.

Very truly yours,

MALCOLM PIRNIE, INC.



Jon P. Muijenburg
Project Environmental Scientist

jlm

Enclosure

c: C. R. Michael

0871-29-3100
PIGSLTR.JPM

DATA QUALIFIER DEFINITIONS

U - The analyte was analyzed for but was not detected above the level of the associated value. The associated value is the Contract Required Detection Limit (CRDL).

J - The analyte was analyzed for and was positively identified, but the associated numerical value may not be consistent with the amount actually present in the environmental sample.

One or more of the following quality control criteria were not met:

- *Blank contamination: indicates possible high bias and/or false positives.*
- *Calibration range exceeded: indicates possible low bias.*
- *Holding times not met: indicates possible low bias and/or false negatives.*
- *Other QC outside control limits: bias not readily determined.*

R - The analyte was analyzed for, but the presence or absence of the analyte has not been verified. Resampling and reanalysis are necessary to confirm or deny the presence of the analyte.

The data are unusable for any purpose.

UJ - A combination of the "U" and the "J" qualifier. The analyte was analyzed for but was not detected above the level of the associated value. The associated value may not accurately or precisely represent the sample detection limit.

If a decision requires quantitation of the analyte close to the associated numerical level, reanalysis or alternative methods should be considered.

UH - The analyte was analyzed for and was not detected at the associated value. The associated value is above the ROD defined action limit.

B - The analyte was detected in the associated method blank as well as in the sample.

E - The analyte was detected at a concentration which exceeded the calibration range of the analytical instruments. The associated value should be considered to be an estimate.

D - This flag indicates all compounds identified in an analysis at a secondary dilution factor. The flag alerts the user that any discrepancies between concentrations reported in multiple runs of an individual sample may be due to dilution of the sample extract.

Combinations of the various qualifiers indicate that more than one qualifier is applicable.

DATA QUALITY REVIEW

This report summarizes a review of analyses performed on 12 soil samples collected August 10, 1992 at the Pigseye Landfill. This data assessment does not apply to CLP contract compliance. Analyses of the samples were performed according to the following schedule:

	<u>Sample Identification</u>	<u>Analysis</u>
SDG:	EMT97	
	EMT97	V, SV, P
	EMT98	V, SV, P
	EMT99	V, SV, P
	ERL01	V, SV, P
	ERL02	V, SV, P
	ERL03	V, SV, P
	ERL04	V, SV, P
	ERL05	SV, P
	ERL06	V, SV, P
	ERL07	V, SV, P
	ERL08	V, SV, P
	ERL09	V, SV, P
SDG:	MEKY79	I
	MEKY79	I
	MEKY80	I
	MENL65	I
	MENL66	I
	MENL67	I
	MENL68	I
	MENL95	I
	MENL96	I
	MENL97	I
	MENL98	I
	MENL99	I

Where: V = Volatiles P = Pesticides/PCBs
 SV = Semi-volatiles I = Inorganics including cyanide

ORGANIC ANALYSES

This data review was performed following criteria specified in the NATIONAL FUNCTIONAL GUIDELINES FOR ORGANIC DATA REVIEW, June 1991 Revision (draft), USEPA CLP. This review also follows the WORK PLAN FOR CLP LABORATORY DATA VALIDATION, June 1991, Malcolm Pirnie.

All quality assurance criteria were met for the organic portion of this data package, except as discussed below.

CALIBRATION

Criteria: Initial: Percent Relative Standard Deviation (%RSD) must be $\leq 30\%$
Relative Response Factor (RRF) must be ≥ 0.05

Continuing: Percent Difference (%D) must be $\leq 25\%$
RRF must be ≥ 0.05

Initial and Continuing calibration criteria were met except the following:

VOLATILES

CONTINUING Instrument HP-5E August 17, 1992 @ 1711

<u>Compound</u>	<u>% D</u>	<u>Data Bias</u>
Chloromethane	-28.4	low
1,2-Dichloroethene (total)	49.4	high

ACTION: The above compounds are qualified as estimated (J or UJ) in the following samples: EMT97, EMT98, EMT99, ERL02, ERLO6, and ERL07.

CONTINUING Instrument HP-5E August 18, 1992 @ 1219

<u>Compound</u>	<u>% D</u>	<u>Data Bias</u>
Acetone	-45.6	low
1,2-Dichloroethene	49.7	high

ACTION: The above compounds are qualified as estimated (J or UJ) in the following samples: ERL01, ERL03, ERL04, ERL08, and ERL09.

CONTINUING Instrument HP-5E August 19, 1992 @ 0924

<u>Compound</u>	<u>% D</u>	<u>Data Bias</u>
Chloromethane	26.9	high
Vinyl chloride	31.2	high
Acetone	-55.1	low
1,2-Dichloroethene	46.7	high

ACTION: The above non-compliance applies only to QA samples.

SEMIVOLATILES

INITIAL Instrument HP-6F August 25, 1992 @ 1741

<u>Compound</u>	<u>% RSD</u>
3-Nitroaniline	45.6
3,3'-Dichlorobenzidine	68.4

ACTION: The above compounds are qualified as estimated (J or UJ) in all samples associated with this data package.

CONTINUING Instrument HP-6F August 26, 1992 @ 0424

<u>Compound</u>	<u>% D</u>	<u>Data Bias</u>
3-Nitroaniline	-60.6	low
4-Nitroaniline	55.6	high
Di-n-butylphthalate	-30.3	low
3,3'-Dichlorobenzidine	-84.7	low
Indeno(1,2,3-cd)pyrene	-61.3	low

ACTION: The above compound is qualified as estimated (J or UJ) in the following samples: EMT97, EMT98, EMT99, ERL01, ERL02, ERL03, ERL04, ERL05, ERL06, and ERL07.

BLANKS

Criteria: No contamination should be found in the blanks.

VOLATILES

VBLKEA 08/17/92 @ 1812

<u>Compound</u>	<u>Concentration</u>	<u>5x</u>	<u>10x</u>	<u>Qualification</u>
Methylene Chloride	3		30	<30
Acetone	8		80	<80
2-Butanone (MEK)	3		30	<30
1,1,2,2-Tetrachloroethene	1.9	9.5		<9.5

AFFECTED SAMPLES: EMT97, EMT98, EMT99, ERL02, ERL06, and ERL07

VBLKEB

<u>Compound</u>	<u>Concentration</u>	<u>5x</u>	<u>10x</u>	<u>Qualification</u>
Methylene Chloride	2		20	<20
Acetone	7		70	<70
2-Butanone (MEK)	3		30	<30

AFFECTED SAMPLES: ERL01, ERL03, ERL04, ERL08, and ERL09

VBLKEC

<u>Compound</u>	<u>Concentration</u>	<u>5x</u>	<u>10x</u>	<u>Qualification</u>
Methylene chloride	4		40	<40

AFFECTED SAMPLES: The above non-compliance applies only to QA samples.

ACTION: Sample concentrations of the indicated compounds below the number in the "Qualification" column are qualified as undetected (U) in the associated samples.

INORGANIC ANALYSES

This data review was performed following criteria specified in the LABORATORY DATA VALIDATION FUNCTIONAL GUIDELINES FOR EVALUATING INORGANIC ANALYSIS, October 1989 Revision.

All quality assurance criteria were met for this data package except as discussed below.

CALIBRATION

Criteria: GFAA, Mercury and Cyanide: Correlation Coefficient must be ≥ 0.995 Percent Recovery (%R) must fall within 90-110% R for all analytes except mercury and cyanide. Mercury results must fall within 80-120% R. Cyanide must fall within 85-115% R.

The following compounds exhibited recoveries outside of the 90% - 110% criteria for the CRDL standard:

<u>Compound</u>	<u>% R</u>	<u>Data Bias</u>
Antimony *	130.2	high
Arsenic	81.0	
Beryllium *	147.4	high
Cadmium *	145.8	high
Chromium *	137.2	high
Cobalt	120.2	high
Copper	120.1	high
Manganese *	144.8	high
Nickel *	122.2	high
Selenium	112.0	
Silver	86.4	
Vanadium *	133.5	high
Zinc *	133.7	high

ACTION: All data for the above elements in all samples associated with this package are qualified as estimated (J or UJ). The impact of the CRDL standards is decreased as the concentration of an element in a sample increases. The acceptance window for declaring bias is $\pm 20\%$ R (80%-120%).

NOTE: Strict application of the Functional Guidelines recommended actions has not been made. The CRDL standard data indicate that the analytical instrument(s) may not provide accurate quantification of the above listed elements, especially at concentrations at or near the CRDL.

The ** indicates elements for which both the initial and final CRDL standards were out of compliance, the largest percentage deviation from the true value of the standard is presented here.

There is no indication that initial or continuing calibration verifications deviate from acceptance criteria (90-110% R), therefore CRDL standard

recoveries > 125% R are judged to not render positive analyte data unusable (qualified "R")

SPIKES

Criteria: Spike recovery (%R) must be between 75-125%. Spike recovery limits do not apply when sample concentration exceeds the spiking concentration by a factor of 4 or more.

The following compounds exhibited spike recoveries which were out of compliance:

<u>Compound</u>	<u>% R</u>	<u>IDL</u>
Antimony	50.5	32.2
Arsenic	47.8	1.4
Selenium	34.0	1.1
Thallium	69.4	1.2

ACTION: The above are qualified as estimated (J or UJ) in all samples associated with this package.

CONCLUSIONS

The principle areas of concern for this data package are concentrations of inorganic parameters at or near the detection limits. The data package indicates a general increase in sensitivity for the inorganic analytes.

Data associated with this package are considered usable with some qualification. Users of this data should consider the above qualifications when applying the data. Definitions of data qualifiers are included elsewhere in this package.

**Summary of Validated Chemical Data
with Concentrations above CRDL**

PIGSEYE LANDFILL

**SUMMARY OF CHEMICAL ANALYTICAL DATA
WITH CONCENTRATIONS EXCEEDING CRDL
FROM SOLID SAMPLES
CLP RAS ANALYSES**

Organic Sample Number	EM197 Q	EM198 Q	EM199 Q	ERL01 Q	ERL02 Q	ERL03 Q	ERL04 Q	ERL05 Q	ERL06 Q	ERL07 Q	ERL08 Q	ERL09 Q
Inorganic Sample Number	ME179	ME179	ME179	ME185	ME185	ME187	ME187	ME194	ME194	ME195	ME195	ME195
Date	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92
Time	0835	1015	1110	1110	1120	1145	1200	1230	1300	1315	1400	1430
Sample Location	SED-1	SED-2	SED-3	SED-4	SED-5	SS-1	SS-2	SS-3	SED-6	SED-7	SED-8	SED-9

VOLATILES - Concentration in $\mu\text{g}/\text{kg}$

Methylene Chloride												
Acetone												
Toluene												
Chlorobenzene												

SEM - VOLATILES - Concentration in $\mu\text{g}/\text{kg}$

Phenanthrene	1,300	1,000	800	500	3,000	500	500	500	1,200	2,000	2,000	1,400
Fluoranthene	2,600	2,700	1,900	1,300	6,000	5,000	6,000	6,000	2,000	1,900	1,900	1,300
Pyrene	2,900	2,700	1,700	900	550	2,700	550	550	1,000	1,000	1,000	1,000
Benz(a)anthracene	1,200	910	970	1,000	630	3,000	1,000	1,000	1,000	1,000	1,000	1,000
Chrysene	1,800	860	1,000	4,500	1,800	1,200	1,200	1,200	1,500	6,600	6,600	6,600
bis(2-Ethylhexyl)phthalate												
Benz(b)fluoranthene	2,900	1,100	2,800	1,800	1,200	J	1,200	J	2,200	1,500	1,500	1,500
Benz(k)fluoranthene												
Benz(a)anthracene	520	570	570	4,100	4,100							
Benz(e)Pyrene	1,400	780	950	2,200	2,200							
Indeno(1,2,3- <i>cd</i>)pyrene	2,200	J	1,400	J	830	J	3,100	J	1,000	J	1,000	J
Benz(g,h)perylene	3,900	310	660	1,700	1,700							

PENTICIDEAPCS - Concentration in $\mu\text{g}/\text{kg}$

4,4'-DDT	4.40	6.10	33.00									
4,4'-DDO												
4,4'-DDT												
epha-Chordane	0.90	3.90	4.30									
gamma-Chordane												
Acetox - 1234												

INORGANICS - Concentration in mg/kg

Aluminum	8500 J	2100 J	2100 J	7400 J	2570 J	8730 J	7650 J	25000 J	3500 J	11500 J	3600 J	4450 J
Antimony	850 J	151 J	151 J	111 J	9 J	72 J	69 J	9 J	33.9 J	9 J	8.5 J	14.0 J
Arsenic	22.9	J	17 J	4.9	J	3.1	J	3.6	J	11.3	J	2.5 J
Barium	223	J	157	J	610	J	133	J	26.3	J	150	J
Boron												
Bromine												
Cadmium												
Calcium	22800 J	4400 J	27000 J	21100 J	30400 J	37800 J	20400 J	22000 J	20700 J	28800 J	4750 J	22200 J
Chromium	20.6	J	11 J	15.3	J	45.6	J	9.8	J	128 J	J	35.8 J
Cobalt												
Copper												
Iron	176 J	33.3 J	51.6 J	56.1 J	18.1 J	175 J	126 J	1260 J	46.3 J	154 J	11.0 J	23.4 J
Magnesium	34400 J	6940 J	156000 J	23600 J	17600 J	18000 J	42400 J	8720 J	66400 J	8320 J	J	12100 J
Manganese	88.7	24.2	23.2	36.9	27.1	87.3	50.5	846	25.4	100	85.1	12.7
Mercury	7120 J	2120 J	210 J	197 J	210 J	618 J	583 J	770 J	207 J	798 J	86.8 J	54.3 J
Nickel	44.8 J	6.7 J	17.6 J	62 J	48.6 J	41.4 J	516 J	16.8 J	43.9 J	7.1 J	12.1 J	
Potassium	910	245	1050	298	737	676	232	232	232	1070	351	368
Selenium												
Silver												
Sodium	824 J	223 J	326 J	472 J	218 J	43 J	34 J	492 J	227 J	1470 J	148 J	253 J
Vanadium	28.7 J	132 J	114 J	279 J	143 J	24.6 J	23.6 J	44.1 J	10.2 J	32.9 J	16.5 J	17.7 J
Zinc	322 J	30.4 J	108 J	132 J	63.2 J	212 J	258 J	1740 J	83.7 J	879 J	28.8 J	68.9 J

Summary of Validated Chemical Data

PIGSEYE LANDFILL

SUMMARY OF CHEMICAL ANALYTICAL DATA
FROM SOLID SAMPLES
CLP RAS ANALYSES

All compounds with reported concentrations below CRDL have been qualified as undetected.

Organic Sample Number	EMT07 Q	EMT08 Q	EMT09 Q	ERL01 Q	ERL02 Q	ERL03 Q	ERL04 Q	ERL05 Q	ERL06 Q	ERL07 Q	ERL08 Q	ERL09 Q	ERL00 Q
Inorganic Sample Number	MEK170	MEK180	MEN.05	MEN.60	MEN.67	MEN.68	MEN.94	MEN.96	MEN.98	MEN.99	MEN.99	MEN.99	MEN.99
Date	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92
Time	1015	1100	1110	1120	1145	1200	1230	1300	1315	1400	1430		
Sample Location	SED-1	SED-2	SED-3	SED-4	SED-5	SS-1	SS-2	SS-3	SED-6	SED-7	SED-8	SED-9	
VOLATILES - Concentration in $\mu\text{g}/\text{kg}$													
Chloromethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Bromomethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Vinyl Chloride	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Chloroethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Methylene Chloride	33 U	12 U	22 U	18 U	18 U	12 U	11 U	15 U	40 U	14 U	25 U		
Acetone	49 U	16 U	37 U	120 J	140 U	49 U	24 U	17 U	60 U	26 U	44 U		
Carbon Disulfide	33 U	12 U	22 U	17 U	19 U	12 U	11 U	19 U	52 U	60 U	63 U		
1,1-Dichloroethene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
1,1-Dichloroethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
1,2-Dichloroethane (Total)	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Chlordorm	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
1,2-Dichloroethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
2-Butanone	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
1,1-Trichloroethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Carbon Tetrachloride	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Bromo(dichloromethane)	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
1,2-Dichloropropane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
cis - 1,3-Dichloropropene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Trichloroethene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Dibromochloromethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
1,1,2-Trichloroethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Benzene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
trans - 1,3-Dichloropropene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Bromodorm	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
4-Methyl - 2-pentanone	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
2-Hexanone	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Tetraethylorthosilicate	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
1,1,2,2-Tetrachloroethene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Toluene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Chlorobenzene	210	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Ethylbenzene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Styrene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Xylene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		

Chloromethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Bromomethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Vinyl Chloride	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Chloroethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Methylene Chloride	33 U	12 U	22 U	18 U	18 U	12 U	11 U	15 U	40 U	14 U	25 U		
Acetone	49 U	16 U	37 U	120 J	140 U	49 U	24 U	17 U	60 U	26 U	44 U		
Carbon Disulfide	33 U	12 U	22 U	17 U	19 U	12 U	11 U	19 U	52 U	60 U	63 U		
1,1-Dichloroethene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
1,1-Dichloroethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
1,2-Dichloroethane (Total)	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Chlordorm	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
1,2-Dichloroethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
2-Butanone	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
1,1-Trichloroethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Carbon Tetrachloride	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Bromo(dichloromethane)	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
1,2-Dichloropropane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
cis - 1,3-Dichloropropene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Trichloroethene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Dibromochloromethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
1,1,2-Trichloroethane	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Benzene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
trans - 1,3-Dichloropropene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Bromodorm	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
4-Methyl - 2-pentanone	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
2-Hexanone	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Tetraethylorthosilicate	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
1,1,2,2-Tetrachloroethene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Toluene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Chlorobenzene	210	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Ethylbenzene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Styrene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		
Xylene	33 U	12 U	22 U	17 U	19 U	12 U	11 U	15 U	40 U	14 U	25 U		

PIGSEYE LANDFILL

SUMMARY OF CHEMICAL ANALYTICAL DATA
FROM SOLID SAMPLES
CLP RAS ANALYSES

All compounds with reported concentrations below CRDL have been qualified as undetected.

Organic Sample Number	EMT07	Q	EMT08	Q	EMT09	Q	ERL01	Q	ERL02	Q	ERL03	Q	ERL04	Q	ERL05	Q	ERL06	Q	ERL07	Q	ERL08	Q	ERL09	Q
Inorganic Sample Number	MEN170																							
Date	08/10/92		08/10/92		08/10/92		08/10/92		08/10/92		08/10/92		08/10/92		08/10/92		08/10/92		08/10/92		08/10/92		08/10/92	
Time	0925		1015		1100		1110		1120		1145		1200		1230		1300		1315		1400		1430	
Sample Location	SED-1		SED-2		SED-3		SED-4		SED-5		SS-1		SS-2		SS-3		SED-6		SED-7		SED-8		SED-9	

SEM-VOLATLES - Concentration in $\mu\text{g}/\text{m}^3$																								
Phenol	U	1,200	U	630																				
bis(2-Chloroethyl)ether	U	1,200	U	630																				
2-Chlorophenol	U	1,200	U	630																				
1,3-Dichlorobenzene	U	1,200	U	630																				
1,4-Dichlorobenzene	U	1,200	U	630																				
1,2-Dichlorobenzene	U	1,200	U	630																				
2-Methylphenol	U	1,200	U	630																				
2,2'-oxybis(1-Chloropropane)	U	1,200	U	630																				
4-Methylphenol	U	1,200	U	630																				
N-Nitroso-di-n-propylamine	U	1,200	U	630																				
Heptachloroethane	U	1,200	U	630																				
Nitrobenzene	U	1,200	U	630																				
Isohexane	U	1,200	U	630																				
2-Nitrophenol	U	1,200	U	630																				
2,4-Dimethylphenol	U	1,200	U	630																				
bis(2-Chloroethyl)methane	U	1,200	U	630																				
2,4-Dichlorophenol	U	1,200	U	630																				
1,2,4-Trichlorobenzene	U	1,200	U	630																				
Naphthalene	U	1,200	U	630																				
4-Chloronitrobenzene	U	1,200	U	630																				
Heptachlorobutene	U	1,200	U	630																				
4-Chloro-3-methylphenol	U	1,200	U	630																				
2-Methylnaphthalene	U	1,200	U	630																				
Heptachlorocyclopentene	U	1,200	U	630																				
2,4,6-Trichlorophenol	U	1,200	U	630																				
2,4,5-Trichlorophenol	U	1,200	U	630																				
2-Chloronaphthalene	U	1,200	U	630																				
2-Nitrobenzene	U	1,200	U	630																				
Dimethylbenzaldehyde	U	1,200	U	630																				
Acamphidine	U	1,200	U	630																				
2,6-Dinitrobenzene	U	1,200	U	630																				
3-Nitroaniline	U	1,200	U	630																				
Acenaphthene	U	1,200	U	630																				

PIGSEYE LANDFILL

**SUMMARY OF CHEMICAL ANALYTICAL DATA
FROM SOLID SAMPLES
CLP RAS ANALYSES**

All compounds with reported concentrations below CRDL have been qualified as undetected.

Organic Sample Number	EMT07 Q	EMT08 Q	EMT09 Q	EMT01 Q	ERL02 Q	ERL03 Q	ERL04 Q	ERL05 Q	ERL06 Q	ERL07 Q	ERL08 Q	ERL09 Q	ERL00 Q
Inorganic Sample Number	MERY60	MENL65	MENL66	MENL67	MENL68	MENL69	MENL94	MENL95	MENL96	MENL97	MENL98	MENL99	MENL99
Date	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92	08/10/92
Time													
Sample Location	0835	1015	1100	1110	1120	1145	1200	1230	1300	1315	1400	1430	
SEM - VOLATLES - Concentration in $\mu\text{g}/\text{kg}$ [Continued]	SED-1	SED-2	SED-3	SED-4	SED-5	SS-1	SS-2	SS-3	SED-6	SED-7	SED-8	SED-9	
2,4-Dinitrophenol	2,700 U	1,000 U	1,500 U	1,300 U	3,000 U	900 U	800 U	1,300 U	1,100 U	3,200 U	1,000 U	2,000 U	
4-Nitrophenol	2,700 U	1,000 U	1,500 U	1,300 U	3,000 U	900 U	800 U	1,300 U	1,100 U	3,200 U	1,000 U	2,000 U	
Dibenzofuran	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
2,4-Dinitrochloroethane	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
Dithiophthalate	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
4-Chlorophenyl-phenylether	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
Fluorene	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
4-Nitroaniline	2,700 U	1,000 U	1,500 U	1,300 U	3,000 U	900 U	800 U	1,300 U	1,100 U	3,200 U	1,000 U	2,000 U	
4,6-Dinitro-2-methylphenol	2,700 U	1,000 U	1,500 U	1,300 U	3,000 U	900 U	800 U	1,300 U	1,100 U	3,200 U	1,000 U	2,000 U	
N-Nitroodiphenylamine	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
4-Bromophenyl-phenylether	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
Heptachlorobenzene	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
Pentachlorophenol	2,700 U	1,000 U	1,500 U	1,300 U	3,000 U	900 U	800 U	1,300 U	1,100 U	3,200 U	1,000 U	2,000 U	
Phenanthrene	1,300 U	1,600 U	800 U	600 U	3,900 U	400 U	500 U	540 U	1,200 U	1,300 U	430 U	800 U	
Anthracene	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
Cathartec	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
Di-n-butylphthalate	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
Fluoranthene	2,600 U	2,700 U	1,900 U	1,300 U	6,600 U	400 U	680 U	540 U	2,000 U	1,300 U	430 U	800 U	
Pyrene	2,300 U	1,700 U	980 U	5,000 U	100 U	600 U	640 U	2,000 U	1,800 U	430 U	800 U		
Butylbenzylphthalate	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
3,3'-Dichlorobenzidine	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
Benz(a)anthracene	1,200 U	910 U	970 U	550 U	2,700 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
Chrysene	1,800 U	800 U	1,000 U	630 U	3,000 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
bis(2-Ethylhexyl)phthalate	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
Di-n-octylphthalate	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
Benz(b)fluoranthene	2,600 U	1,100 U	2,000 U	1,600 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
Benz(a)fluoranthene	1,100 U	520 U	630 U	530 U	1,100 U	550 U	2,700 U	400 U	370 U	640 U	470 U	1,300 U	430 U
Benz(a)Pyrene	1,400 U	780 U	350 U	570 U	2,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
Indeno[1,2,3-cd]pyrene	2,200 U	J	1,000 U	1,400 U	J	830 J	3,100 J	400 U	370 U	1,000 J	1,600 J	430 U	800 U
Dibenz(a,h)anthracene	1,100 U	410 U	630 U	530 U	1,200 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	
Benzog(h)phenylene	1,300 U	610 U	690 U	530 U	1,700 U	400 U	370 U	640 U	470 U	1,300 U	430 U	800 U	

PIGEYE LANDFILL

**SUMMARY OF CHEMICAL ANALYTICAL DATA
FROM SOLID SAMPLES
CLP RAS ANALYSES**

All compounds with recorded IC_{50} concentrations below CAPI have been omitted as undetectable.

PESTICIDES in PCB		Concentration in $\mu\text{g}/\text{mg}$									
alpha-BHC	5.70	U	2.10	U	3.20	U	2.70	U	3.20	U	2.80
beta-BHC	5.70	U	2.10	U	3.30	U	2.70	U	3.20	U	2.80
gamma-BHC	5.70	U	2.10	U	3.20	U	2.70	U	3.20	U	2.80
gamma -BHD	5.70	U	2.10	U	3.30	U	2.70	U	3.20	U	2.80
Hepatobacter	5.70	U	2.10	U	3.30	U	2.70	U	3.20	U	2.80
Aldrin	5.70	U	2.10	U	3.30	U	2.70	U	3.20	U	2.80
Hepatobacter Epoxide	5.70	U	2.10	U	3.30	U	2.70	U	3.20	U	2.80
Endosulfan I	5.70	U	2.10	U	3.30	U	2.70	U	3.20	U	2.80
Dieldrin	11.00	U	4.10	U	6.30	U	6.30	U	6.20	U	4.80
4'-DDE	11.00	U	4.10	U	6.30	U	6.30	U	6.20	U	4.80
Endih	11.00	U	4.40	U	6.20	U	6.30	U	6.30	U	5.00
Endosulfan II	11.00	U	4.10	U	6.30	U	6.30	U	6.20	U	4.80
4,4'-DDD	11.00	U	4.10	U	6.30	U	6.10	U	6.20	U	4.80
Endosulfan Sulph	11.00	U	4.10	U	6.30	U	6.30	U	6.20	U	4.80
4,4'-DDT	11.00	U	4.10	U	6.30	U	6.30	U	6.20	U	4.80
Methoponchlar	67.00	U	21.00	U	33.00	U	27.00	U	32.00	U	19.00
Endih Ketone	11.00	U	4.10	U	6.30	U	6.30	U	6.20	U	4.80
Endih Aldehyde	11.00	U	4.10	U	6.30	U	6.30	U	6.20	U	4.80
alpha-Chlordane	67.00	U	21.00	U	33.00	U	27.00	U	32.00	U	19.00
gamma-Chlordane	5.70	U	2.10	U	3.30	U	3.50	U	2.80	U	1.80
Tropane	670.00	U	20.00	U	33.00	U	27.00	U	32.00	U	19.00
Aroclor-1018	110.00	U	41.00	U	63.00	U	53.00	U	62.00	U	40.00
Aroclor-1122	220.00	U	64.00	U	130.00	U	110.00	U	120.00	U	74.00
Aroclor-1222	110.00	U	41.00	U	63.00	U	53.00	U	62.00	U	40.00
Aroclor-1242	110.00	U	41.00	U	63.00	U	53.00	U	62.00	U	40.00
Aroclor-1248	110.00	U	41.00	U	63.00	U	53.00	U	62.00	U	40.00
Aroclor-1254	110.00	U	41.00	U	63.00	U	53.00	U	62.00	U	40.00
Aroclor-1260	110.00	U	41.00	U	63.00	U	53.00	U	62.00	U	40.00
Aroclor-1270	110.00	U	41.00	U	63.00	U	53.00	U	62.00	U	40.00

PIGEYE LANDFILL

**SUMMARY OF CHEMICAL ANALYTICAL DATA
FROM SOLID SAMPLES
CLP RAS ANALYSES**

All compounds with reported concentrations below CRDL have been qualified as undetected.

Organic Sample Number	EMT07 Q	EMT06 Q	EMT00 Q	ERL01 Q	ERL02 Q	ERL03 Q	ERL04 Q	ERL05 Q	ERL06 Q	ERL07 Q	ERL08 Q	ERL09 Q	MEN.99
Inorganic Sample Number	MEKY80	MEN.65	MEN.66	MEN.67	MEN.68	MEN.69	MEN.94	MEN.95	MEN.96	MEN.97	MEN.98	MEN.99	
Date	08/10/92		08/10/92		08/10/92		08/10/92		08/10/92		08/10/92		08/10/92
Time	1015	1100	1110	1120	1145	1200	1230	1300	1315	1400	1430		
Sample Location	SED-1	SED-2	SED-3	SED-4	SED-5	SS-1	SS-2	SS-3	SED-6	SED-7	SED-8	SED-9	

INORGANICS - Concentration in mg/kg

Aluminum	8590 J	2180 J	2180 J	7480 J	2570 J	8780 J	7850 J	25000 J	3580 J	11800 J	3800 J	4450 J	
Antimony	21.7 UJ	7.8 UJ	15.1 UJ	11.1 UJ	9 UJ	7.2 UJ	6.8 UJ	9 UJ	9 UJ	33.8 UJ	6.6 UJ	14.6 UJ	
Arsenic	22.0 UJ	1.7 UJ	4.9 UJ	4.4 UJ	3.1 UJ	3.6 UJ	2.8 UJ	11.3 UJ	2.8 UJ	4.9 UJ	0.91 UJ	2.6 UJ	
Barium	223 UJ	18.7 UJ	610 UJ	593 UJ	263 UJ	156 UJ	130 UJ	560 UJ	40.6 UJ	292 UJ	27.7 UJ	63.4 UJ	
Beryllium	1.1 UJ	0.39 UJ	3.5 UJ	0.75 UJ	0.45 UJ	0.6 UJ	0.77 UJ	1.9 UJ	0.52 UJ	2 UJ	0.42 UJ	0.75 UJ	
Cadmium	2.4 UJ	0.87 UJ	1.7 UJ	1.2 UJ	1 UJ	0.7 UJ	0.7 UJ	6.3 UJ	25.7 UJ	1.2 UJ	9.6 UJ	0.65 UJ	1.6 UJ
Calcium	22800 UJ	4460 UJ	27000 UJ	21100 UJ	5080 UJ	37800 UJ	30400 UJ	220000 UJ	8470 UJ	23000 UJ	1730 UJ	23200 UJ	
Chromium	28.6 UJ	1.1 UJ	13.3 UJ	45.6 UJ	19.8 UJ	152 UJ	126 UJ	1170 UJ	35.8 UJ	45 UJ	11.1 UJ	22.1 UJ	
Cobalt	9.5 UJ	3.4 UJ	6.7 UJ	6.3 UJ	3.9 UJ	7.6 UJ	7.6 UJ	16.2 UJ	3.9 UJ	14.7 UJ	4 UJ	6.5 UJ	
Copper	176 UJ	33.3 UJ	31.6 UJ	56.1 UJ	16.1 UJ	175 UJ	126 UJ	1260 UJ	46.3 UJ	154 UJ	11.6 UJ	23.4 UJ	
Iron	34400 UJ	8940 UJ	156000 UJ	238000 UJ	7630 UJ	17800 UJ	16000 UJ	42400 UJ	9720 UJ	86000 UJ	6320 UJ	12100 UJ	
Lead	68.7 UJ	24.2 UJ	23.2 UJ	36.9 UJ	27.1 UJ	87.3 UJ	50.5 UJ	344 UJ	25.4 UJ	100 UJ	95.1 UJ	127 UJ	
Magnesium	7120 J	2120 J	2820 J	6730 J	2330 J	9530 J	7380 J	14300 J	2830 J	6000 J	2280 J	8600 J	
Manganese	0.23 UJ	132 UJ	210 J	197 J	210 J	618 J	563 J	770 J	207 J	796 J	86.8 J	543 J	
Mercury	0.25 UJ	0.09 UJ	0.19 UJ	0.13 UJ	0.11 UJ	0.09 UJ	0.09 UJ	0.13 UJ	0.12 UJ	0.75 UJ	0.12 UJ	0.16 UJ	
Nickel	44.8 UJ	6.5 UJ	8.7 UJ	17.6 UJ	6.2 UJ	49.6 UJ	41.4 UJ	316 UJ	16.8 UJ	43.9 UJ	7.1 UJ	12.1 UJ	
Potassium	970 UJ	82.4 UJ	245 UJ	1050 UJ	298 UJ	737 UJ	678 UJ	232 UJ	285 UJ	1070 UJ	351 UJ	366 UJ	
Selenium	0.71 UJ	0.25 UJ	0.57 UJ	0.38 UJ	0.31 UJ	0.29 UJ	0.29 UJ	2.4 UJ	3.3 UJ	0.35 UJ	1.2 UJ	0.29 UJ	
Silver	1.4 UJ	0.49 UJ	0.64 UJ	0.69 UJ	0.59 UJ	4.3 UJ	3.4 UJ	46.2 UJ	0.59 UJ	2.1 UJ	0.53 UJ	0.91 UJ	
Sodium	624 UJ	223 UJ	526 UJ	472 UJ	218 UJ	276 UJ	271 UJ	602 UJ	227 UJ	1470 UJ	148 UJ	253 UJ	
Thallium	0.77 UJ	0.27 UJ	0.82 UJ	0.41 UJ	0.34 UJ	0.27 UJ	0.26 UJ	0.38 UJ	0.32 UJ	0.32 UJ	0.32 UJ	0.49 UJ	
Vanadium	28.7 J	13.2 J	11.4 J	27.9 J	14.3 J	24.6 J	23.6 J	44.1 J	16.2 J	32.8 J	16.5 J	17.7 J	
Zinc	322 UJ	30.4 UJ	108 UJ	132 UJ	63.2 UJ	256 UJ	1740 UJ	212 UJ	837 UJ	879 UJ	26.8 UJ	86.9 UJ	
Cyanide	6.8 UJ	2.4 UJ	5 UJ	3.5 UJ	2.9 UJ	2.7 UJ	2.2 UJ	3.6 UJ	3.4 UJ	12.1 UJ	3 UJ	5.4 UJ	

Annotated FORM I Data Sheets

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMT97

Lab Name: CLAYTON NOVI

Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 18569

SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990830

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: E0715

Level: (low/med) LOW

Date Received: 08/18/92 9-13-A

x Moisture: not dec. 70

Date Analyzed: 08/17/92

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	33	IJ	uJ
74-83-9	Bromomethane	33	IU	
75-01-4	Vinyl Chloride	33	IU	
75-00-3	Chloroethane	33	IU	
75-09-2	Methylene Chloride	31	IBJ	J
67-64-1	Acetone	48	I8	u
75-15-0	Carbon Disulfide	33	IU	
75-35-4	1,1-Dichloroethene	33	IU	
75-34-3	1,1-Dichloroethane	33	IU	
540-59-0	1,2-Dichloroethene (total)	33	IW	uJ
67-66-3	Chloroform	33	IU	
107-06-2	1,2-Dichloroethane	33	IU	
78-93-3	2-Butanone	14	I8J	u
71-55-6	1,1,1-Trichloroethane	33	IU	
56-23-5	Carbon Tetrachloride	33	IU	
75-27-4	Bromodichloromethane	33	IU	
78-87-5	1,2-Dichloroproppane	33	IU	
10061-01-5	cis-1,3-Dichloropropene	33	IU	
79-01-6	Trichloroethene	33	IU	
124-48-1	Dibromochloromethane	33	IU	
79-00-5	1,1,2-Trichloroethane	33	IU	
71-43-2	Benzene	11	IJ	
10061-02-6	trans-1,3-Dichloropropene	33	IU	
75-25-2	Bromoform	33	IU	
108-10-1	4-Methyl-2-Pentanone	33	IU	
591-78-6	2-Hexanone	33	IU	
127-18-4	Tetrachloroethene	33	IU	
79-34-5	1,1,2,2-Tetrachloroethane	33	I8J	4
108-88-3	Toluene	33	IJ	
108-90-7	Chlorobenzene	210	I	
100-41-4	Ethylbenzene	33	IU	
100-42-5	Styrene	33	IU	
1330-20-7	Xylene (total)	33	IU	

020

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N:

EMT98

Lab Name: CLAYTON NOVI

Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 18569

SAS No.: _____

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990832

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: E0716

Level: (low/med) LOW

Date Received: 08/15/92 q-1

% Moisture: not dec. 20

Date Analyzed: 08/17/92

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

74-87-3-----Chloromethane	12	IU	uJ
74-83-9-----Bromomethane	12	IU	
75-01-4-----Vinyl Chloride	12	IU	
75-00-3-----Chloroethane	12	IU	
75-09-2-----Methylene Chloride	8	IBJ	uJ
67-64-1-----Acetone	16	IBJ	uJ
75-15-0-----Carbon Disulfide	12	IU	
75-35-4-----1,1-Dichloroethene	12	IU	
75-34-3-----1,1-Dichloroethane	12	IU	
540-59-0-----1,2-Dichloroethene (total)	12	IU	uJ
67-66-3-----Chloroform	12	IU	
107-06-2-----1,2-Dichloroethane	12	IU	
78-93-3-----2-Butanone	12	IU	
71-55-6-----1,1,1-Trichloroethane	12	IU	
56-23-5-----Carbon Tetrachloride	12	IU	
75-27-4-----Bromodichloromethane	12	IU	
78-87-5-----1,2-Dichloropropane	12	IU	
10061-01-5-----cis-1,3-Dichloropropene	12	IU	
79-01-6-----Trichloroethene	12	IU	
124-48-1-----Dibromochloromethane	12	IU	
79-00-5-----1,1,2-Trichloroethane	12	IU	
71-43-2-----Benzene	12	IU	
10061-02-6-----trans-1,3-Dichloropropene	12	IU	
75-25-2-----Bromoform	12	IU	
108-10-1-----4-Methyl-2-Pentanone	12	IU	
591-78-6-----2-Hexanone	12	IU	
127-18-4-----Tetrachloroethene	12	IU	
79-34-5-----1,1,2,2-Tetrachloroethane	12	IBJ	uJ
108-88-3-----Toluene	12	IU	
108-90-7-----Chlorobenzene	12	IU	
100-41-4-----Ethylbenzene	12	IU	
100-42-5-----Styrene	12	IU	
1330-20-7-----Xylene (total)	12	IU	

031

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMT99

Lab Name: CLAYTON NOVI

Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 18569

SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990834

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: E0717

Level: (low/med) LOW

Date Received: 08/17/92 1-15-

% Moisture: not dec. 54

Date Analyzed: 08/17/92

GC Column: CAP ID: 0.530 (mm)

Dilution Factors: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

	CAS NO.	COMPOUND			
	74-87-3-----	Chloromethane	22	18	4J
	74-83-9-----	Bromomethane	22	1U	
	75-01-4-----	Vinyl Chloride	22	1U	
	75-00-3-----	Chloroethane	22	1U	
	75-09-2-----	Methylene Chloride	15	18J	4
	67-64-1-----	Acetone	37	18	4
	75-15-0-----	Carbon Disulfide	22	1U	
	75-35-4-----	1,1-Dichloroethene	22	1U	
	75-34-3-----	1,1-Dichloroethane	22	1U	
	540-59-0-----	1,2-Dichloroethene (total)	22	18	4J
	67-66-3-----	Chloroform	22	1U	
	107-06-2-----	1,2-Dichloroethane	22	1U	
	78-93-3-----	2-Butanone	22	1U	
	71-55-6-----	1,1,1-Trichloroethane	22	1U	
	56-23-5-----	Carbon Tetrachloride	22	1U	
	75-27-4-----	Bromodichloromethane	22	1U	
	78-87-5-----	1,2-Dichloroproppane	22	1U	
	10061-01-5-----	cis-1,3-Dichloropropene	22	1U	
	79-01-6-----	Trichloroethene	22	1U	
	124-48-1-----	Dibromochloromethane	22	1U	
	79-00-5-----	1,1,2-Trichloroethane	22	1U	
	71-43-2-----	Benzene	12	1J	
	10061-02-6-----	trans-1,3-Dichloropropene	22	1U	
	75-25-2-----	Bromoform	22	1U	
	108-10-1-----	4-Methyl-2-Pentanone	22	1U	
	591-78-6-----	2-Hexanone	22	1U	
	127-18-4-----	Tetrachloroethene	22	1U	
	79-34-5-----	1,1,2,2-Tetrachloroethane	22	18J	4
	108-88-3-----	Toluene	22	1U	
	108-90-7-----	Chlorobenzene	22	1U	
	100-41-4-----	Ethylbenzene	22	1U	
	100-42-5-----	Styrene	22	1U	
	1330-20-7-----	Xylene (total)	038	22	1U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ERL01

Lab Name: CLAYTON NOVI

Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 18569

SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990836

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: E0737

Level: (low/med) LOW

Date Received: 08/18/92 1-15

% Moisture: not dec. 42

Date Analyzed: 08/18/92

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	17	JU	
74-83-9	Bromomethane	17	JU	
75-01-4	Vinyl Chloride	17	JU	
75-00-3	Chloroethane	17	JU	
75-09-2	Methylene Chloride	18	18	4
67-64-1	Acetone	120	18	J
75-15-0	Carbon Disulfide	17	JU	
75-35-4	1,1-Dichloroethene	17	JU	
75-34-3	1,1-Dichloroethane	17	JU	
540-59-0	1,2-Dichloroethene (total)	17	18	uJ
67-66-3	Chloroform	17	JU	
107-06-2	1,2-Dichloroethane	17	JU	
78-93-3	2-Butanone	17	18	4
71-55-6	1,1,1-Trichloroethane	17	JU	
56-23-5	Carbon Tetrachloride	17	JU	
75-27-4	Bromodichloromethane	17	JU	
78-87-5	1,2-Dichloroproppane	17	JU	
10061-01-5	cis-1,3-Dichloropropene	17	JU	
79-01-6	Trichloroethene	17	JU	
124-48-1	Dibromochloromethane	17	JU	
79-00-5	1,1,2-Trichloroethane	17	JU	
71-43-2	Benzene	7	JU	
10061-02-6	trans-1,3-Dichloropropene	17	JU	
75-25-2	Bromoform	17	JU	
108-10-1	4-Methyl-2-Pentanone	17	JU	
591-78-6	2-Hexanone	17	JU	
127-18-4	Tetrachloroethene	17	JU	
79-34-5	1,1,2,2-Tetrachloroethane	17	JU	
108-88-3	Toluene	17	JU	
108-90-7	Chlorobenzene	17	JU	
100-41-4	Ethylbenzene	17	JU	
100-42-5	Styrene	17	JU	
1330-30-7	Xylene (total)	048		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ERL02

Lab Name: CLAYTON NOVI

Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 18569

SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990838

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: E0719

Level: (low/med) LOW

Date Received: 08/12/92 9-R

% Moisture: not dec. 48

Date Analyzed: 08/17/92

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	19 IU	uJ
74-83-9	Bromomethane	19 IU	
75-01-4	Vinyl Chloride	19 IU	
75-00-3	Chloroethane	19 IU	
75-09-2	Methylene Chloride	19 18 IU	uJ u
67-64-1	Acetone	140 IU	X
75-15-0	Carbon Disulfide	19 IU	
75-35-4	1,1-Dichloroethene	19 IU	
75-34-3	1,1-Dichloroethane	19 IU	
540-59-0	1,2-Dichloroethene (total)	19 IU	
67-66-3	Chloroform	19 IU	
107-06-2	1,2-Dichloropethane	19 IU	
78-93-3	2-Butanone	19 IU	
71-55-6	1,1,1-Trichloroethane	19 IU	
56-23-5	Carbon Tetrachloride	19 IU	
75-27-4	Bromodichloromethane	19 IU	
78-87-5	1,2-Dichloropropane	19 IU	
10061-01-5	cis-1,3-Dichloropropene	19 IU	
79-01-6	Trichloroethene	19 IU	
124-48-1	Dibromochloromethane	19 IU	
79-00-5	1,1,2-Trichloroethane	19 IU	
71-43-2	Benzene	19 IU	
10061-02-6	trans-1,3-Dichloropropene	19 IU	
75-25-2	Bromoform	19 IU	
108-10-1	4-Methyl-2-Pentanone	19 IU	
591-78-6	2-Hexanone	19 IU	
127-18-4	Tetrachloroethene	19 IU	
79-34-5	1,1,2,2-Tetrachloroethane	19 Z IU	uJ u
108-88-3	Toluene	19 A IU	
108-90-7	Chlorobenzene	19 IU	
100-41-4	Ethylbenzene	19 IU	
100-42-5	Styrene	19 IU	
1330-30-7	Xylene (total)	19 IU	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CLAYTON NOVI

Contract: 68-D1-0087

ERL03

Lab Code: CLAYTN Case No.: 18569

SAS No.: _____

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990840

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: E0738

Level: (low/med) LOW

Date Received: 08/18/92 1-K

% Moisture: not dec. 17

Date Analyzed: 08/18/92

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

74-87-3-----Chloromethane	12	IU
74-83-9-----Bromomethane	12	IU
75-01-4-----Vinyl Chloride	12	IU
75-00-3-----Chloroethane	12	IU
75-09-2-----Methylene Chloride	39	I ^R
67-64-1-----Acetone	49	I ^R 4J
75-15-0-----Carbon Disulfide	12	IU
75-35-4-----1,1-Dichloroethene	12	IU
75-34-3-----1,1-Dichloroethane	12	IU
540-59-0-----1,2-Dichloroethene (total)	12	W WJ
67-66-3-----Chloroform	12	IU
107-06-2-----1,2-Dichloroethane	12	IU
78-93-3-----2-Butanone	12	IU
71-55-6-----1,1,1-Trichloroethane	12	IU
56-23-5-----Carbon Tetrachloride	12	IU
75-27-4-----Bromodichloromethane	12	IU
78-87-5-----1,2-Dichloropropane	12	IU
10061-01-5-----cis-1,3-Dichloropropene	12	IU
79-01-6-----Trichloroethene	12	IU
124-48-1-----Dibromochloromethane	12	IU
79-00-5-----1,1,2-Trichloroethane	12	IU
71-43-2-----Benzene	12	IU
10061-02-6-----trans-1,3-Dichloropropene	12	IU
75-25-2-----Bromoform	12	IU
108-10-1-----4-Methyl-2-Pentanone	12	IU
591-78-6-----2-Hexanone	12	IU
127-18-4-----Tetrachloroethene	12	IU
79-34-5-----1,1,2,2-Tetrachloroethane	12	IU
108-88-3-----Toluene	12	IU
108-90-7-----Chlorobenzene	12	IU
100-41-4-----Ethylbenzene	12	IU
100-42-5-----Styrene	12	IU
1330-20-7-----Xylene (total)	12	IU

071

IA

EPA SAMPLE NO

VOLATILE ORGANICS ANALYSIS DATA SHEET

ERL04

Lab Name: CLAYTON NOVI

Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 18569

SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990842

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: E0744

Level: (low/med) LOW

Date Received: 08/18/92 7-15

% Moisture: not dec. 10

Date Analyzed: 08/18/92

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

74-87-3-----Chloromethane	11	IU
74-83-9-----Bromomethane	11	IU
75-01-4-----Vinyl Chloride	11	IU
75-00-3-----Chloroethane	11	IU
75-09-2-----Methylene Chloride	9	LB 4
67-64-1-----Acetone	24	LB 4J
75-15-0-----Carbon Disulfide	11	IU
75-35-4-----1,1-Dichloroethene	11	IU
75-34-3-----1,1-Dichloroethane	11	IU
540-59-0-----1,2-Dichloroethene (total)	11	LB uJ
67-66-3-----Chloroform	11	IU
107-06-2-----1,2-Dichloroethane	11	IU
78-93-3-----2-Butanone	11	IU
71-55-6-----1,1,1-Trichloroethane	11	IU
56-23-5-----Carbon Tetrachloride	11	IU
75-27-4-----Bromodichloromethane	11	IU
78-87-5-----1,2-Dichloropropane	11	IU
10061-01-5-----cis-1,3-Dichloropropene	11	IU
79-01-6-----Trichloroethene	11	IU
124-48-1-----Dibromochloromethane	11	IU
79-00-5-----1,1,2-Trichloroethane	11	IU
71-43-2-----Benzene	11	IU
10061-02-6-----trans-1,3-Dichloropropene	11	IU
75-25-2-----Bromoform	11	IU
108-10-1-----4-Methyl-2-Pentanone	11	IU
591-78-6-----2-Hexanone	11	IU
127-18-4-----Tetrachloroethene	11	IU
79-34-5-----1,1,2,2-Tetrachloroethane	11	IU
108-88-3-----Toluene	11	IU
108-90-7-----Chlorobenzene	11	IU
100-41-4-----Ethylbenzene	11	IU
100-42-5-----Styrene	11	IU
1330-80-7-----Xylene (total)	11	IU

077

IA
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: <u>CLAYTON NOVI</u>	Contract: <u>68-D1-0087</u>	ERL06
Lab Code: <u>CLAYTN</u>	Case No.: <u>18569</u>	SAS No.: _____ SDG No.: <u>EMT97</u>
Matrix: (soil/water) <u>SOIL</u>	Lab Sample ID: <u>990844</u>	
Sample wt/vol: <u>5.0</u> (g/mL) G	Lab File ID: <u>E0727</u>	
Level: (low/med) <u>LOW</u>	Date Received: <u>08/18/92 1-15</u>	
% Moisture: not dec. <u>34</u>	Date Analyzed: <u>08/18/92</u>	
GC Column: <u>CAP</u> ID: <u>0.530</u> (mm)	Dilution Factor: <u>1.0</u>	
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3-----Chloromethane		15	uJ
74-83-9-----Bromomethane		15	IU
75-01-4-----Vinyl Chloride		15	IU
75-00-3-----Chloroethane		15	IU
75-09-2-----Methylene Chloride		17	18 u
67-64-1-----Acetone		19	18 u <u>0A</u>
75-15-0-----Carbon Disulfide		15	IU
75-35-4-----1,1-Dichloroethene		15	IU
75-34-3-----1,1-Dichloroethane		15	IU
540-59-0-----1,2-Dichloroethene (total)		15	18 uJ
67-66-3-----Chloroform		15	IU
107-06-2-----1,2-Dichloroethane		15	IU
78-93-3-----2-Butanone		15	IU
71-55-6-----1,1,1-Trichloroethane		15	IU
56-23-5-----Carbon Tetrachloride		15	IU
75-27-4-----Bromodichloromethane		15	IU
78-87-5-----1,2-Dichloropropane		15	IU
10061-01-5-----cis-1,3-Dichloropropene		15	IU
79-01-6-----Trichloroethene		15	IU
124-48-1-----Dibromochloromethane		15	IU
79-00-5-----1,1,2-Trichloroethane		15	IU
71-43-2-----Benzene		15	IU
10061-02-6-----trans-1,3-Dichloropropene		15	IU
75-25-2-----Bromoform		15	IU
108-10-1-----4-Methyl-2-Pentanone		15	IU
591-78-6-----2-Hexanone		15	IU
127-18-4-----Tetrachloroethene		15	IU
79-34-5-----1,1,2,2-Tetrachloroethane		15	IU
108-88-3-----Toluene		15	IU
108-90-7-----Chlorobenzene		15	IU
100-41-4-----Ethylbenzene		15	IU
100-42-5-----Styrene		15	IU
1330-20-7-----Xylene (total)		15	IU
087			

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ERL07

Lab Name: CLAYTON NOVI

Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 18569

SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990846

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: E0728

Level: (low/med) LOW

Date Received: 08/18/92 1-15

% Moisture: not dec. 75

Date Analyzed: 08/18/92

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	40	10	4J
74-83-9	Bromomethane	40	10	
75-01-4	Vinyl Chloride	40	10	
75-00-3	Chloroethane	40	10	
75-09-2	Methylene Chloride	50	10	
67-64-1	Acetone	52	10	40P
75-15-0	Carbon Disulfide	40	10	
75-35-4	1,1-Dichloroethene	40	10	
75-34-3	1,1-Dichloroethane	40	10	
540-59-0	1,2-Dichloroethene (total)	40	10	4J
67-66-3	Chloroform	40	10	
107-06-2	1,2-Dichloroethane	40	10	
78-93-3	2-Butanone	40	10	
71-55-6	1,1,1-Trichloroethane	40	10	
56-23-5	Carbon Tetrachloride	40	10	
75-27-4	Bromodichloromethane	40	10	
78-87-5	1,2-Dichloroproppane	40	10	
10061-01-5	cis-1,3-Dichloropropene	40	10	
79-01-6	Trichloroethene	40	10	
124-48-1	Dibromochloromethane	40	10	
79-00-5	1,1,2-Trichloroethane	40	10	
71-43-2	Benzene	40	10	
10061-02-6	trans-1,3-Dichloropropene	40	10	
75-25-2	Bromoform	40	10	
108-10-1	4-Methyl-2-Pentanone	40	10	
591-78-6	2-Hexanone	40	10	
127-18-4	Tetrachloroethene	40	10	
79-34-5	1,1,2-Tetrachloroethane	40	10	
108-88-3	Toluene	40	10	
108-90-7	Chlorobenzene	40	10	
100-41-4	Ethylbenzene	40	10	
100-42-5	Styrene	40	10	
1330-20-7	Xylene (total)	40	10	

093

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CLAYTON NOVI Contract: 68-DI-0087 | ERL08

Lab Code: CLAYTN Case No.: 18569 SAS No.: _____ SDG No.: EMT97

Matrix: (soil/water) SOIL Lab Sample ID: 990848

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E0739

Level: (low/med) LOW Date Received: 08/17/92 90
7-15

% Moisture: not dec. 31 Date Analyzed: 08/18/92

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3-----	Chloromethane	14	IU	
74-83-9-----	Bromomethane	14	IU	
75-01-4-----	Vinyl Chloride	14	IU	
75-00-3-----	Chloroethane	14	IU	
75-09-2-----	Methylene Chloride	28	I8	
67-64-1-----	Acetone	60	I8	uJ
75-15-0-----	Carbon Disulfide	14	IU	
75-35-4-----	1,1-Dichloroethene	14	IU	
75-34-3-----	1,1-Dichloroethane	14	IU	
540-59-0-----	1,2-Dichloroethene (total)	14	I8	uJ
67-66-3-----	Chloroform	14	IU	
107-06-2-----	1,2-Dichloroethane	14	IU	
78-93-3-----	2-Butanone	14	IU	
71-55-6-----	1,1,1-Trichloroethane	14	IU	
56-23-5-----	Carbon Tetrachloride	14	IU	
75-27-4-----	Bromodichloromethane	14	IU	
78-87-5-----	1,2-Dichloropropane	14	IU	
10061-01-5-----	cis-1,3-Dichloropropene	14	IU	
79-01-6-----	Trichloroethene	14	IU	
124-48-1-----	Dibromochloromethane	14	IU	
79-00-5-----	1,1,2-Trichloroethane	14	IU	
71-43-2-----	Benzene	14	IU	
10061-02-6-----	trans-1,3-Dichloropropene	14	IU	
75-25-2-----	Bromoform	14	IU	
108-10-1-----	4-Methyl-2-Pentanone	14	IU	
591-78-6-----	2-Hexanone	14	IU	
127-18-4-----	Tetrachloroethene	14	IU	
79-34-5-----	1,1,2,2-Tetrachloroethane	14	IU	
108-88-3-----	Toluene	14	IU	
108-90-7-----	Chlorobenzene	14	IU	
100-41-4-----	Ethylbenzene	14	IU	
100-42-5-----	Styrene	14	IU	
1330-20-7-----	Xylene (total)	14	IU	

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18569 · 5

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CLAYTON NOVI Contract: 68-D1-0087 |

Lab Code: CLAYTN Case No.: 18569 SAS No.: SDG No.: EMT97 |

Matrix: (soil/water) SOIL Lab Sample ID: 990850 |

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E0740 |

Level: (low/med) LOW Date Received: 08/18/92 9-5 |

% Moisture: not dec. 60 Date Analyzed: 08/18/92 |

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0 |

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL) |

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND				
74-87-3	Chloromethane	25	10		
74-83-9	Bromomethane	25	10		
75-01-4	Vinyl Chloride	25	10		
75-00-3	Chloroethane	25	10		
75-09-2	Methylene Chloride	44	18		
67-64-1	Acetone	63	18	4J	
75-15-0	Carbon Disulfide	25	10		
75-35-4	1,1-Dichloroethene	25	10		
75-34-3	1,1-Dichloroethane	25	10		
540-59-0	1,2-Dichloroethene (total)	25	10	4J	
67-66-3	Chloroform	25	10		
107-06-2	1,2-Dichloroethane	25	10		
78-93-3	2-Butanone	25	10		
71-55-6	1,1,1-Trichloroethane	25	10		
56-23-5	Carbon Tetrachloride	25	10		
75-27-4	Bromodichloromethane	25	10		
78-87-5	1,2-Dichloroproppane	25	10		
10061-01-5	cis-1,3-Dichloropropene	25	10		
79-01-6	Trichloroethene	25	10		
124-48-1	Dibromochloromethane	25	10		
79-00-5	1,1,2-Trichloroethane	25	10		
71-43-2	Benzene	25	10		
10061-02-6	trans-1,3-Dichloropropene	25	10		
75-25-2	Bromoform	25	10		
108-10-1	4-Methyl-2-Pentanone	25	10		
591-78-6	2-Hexanone	25	10		
127-18-4	Tetrachloroethene	25	10		
79-34-5	1,1,2,2-Tetrachloroethane	25	10		
108-88-3	Toluene	25	10		
108-90-7	Chlorobenzene	25	10		
100-41-4	Ethylbenzene	25	10		
100-42-5	Styrene	25	10		
1330-20-7	Xylene (total)	109			

18
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CLAYTON HUVI

Contract: 68-01-0087

EMT97

Lab Code: CLAYTN Case No.: 18569 SGS No.: _____

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 290852

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F8464

Level: (low/med) LOW

Date Received: 08/12/92 9-1C

% Moisture: 70 decanted: (Y/N) N

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg

Q

CAS NO.	COMPOUND	1100	10
108-95-2	-Phenol	1100	10
111-44-4	-bis(2-Chloroethyl)Ether	1100	10
95-57-8	-2-Chlorophenol	1100	10
541-73-1	-1,3-Dichlorobenzene	1100	10
106-46-7	-1,4-Dichlorobenzene	1100	10
95-50-1	-1,2-Dichlorobenzene	1100	10
95-48-7	-2-Methylphenol	1100	10
108-60-1	-2,2'-oxybis(1-Chloropropane)	1100	10
108-44-5	-4-Methylphenol	1100	10
521-64-7	-N-Nitroso-2-n-Propylamine	1100	10
67-72-1	-hexachloroethane	1100	10
93-95-3	-Nitrobenzene	1100	10
78-59-1	-Isophorone	1100	10
98-75-5	-2-Nitrophenol	1100	10
105-67-9	-2,4-Dimethylphenol	1100	10
111-91-1	-bis(2-Chloroethoxy)Methane	1100	10
120-83-2	-2,4-Dichlorophenol	1100	10
120-82-1	-1,2,4-Trichlorobenzene	1100	10
31-20-3	-Napthalene	1100	10
100-47-3	-4-Chloraniline	1100	10
67-68-3	-Hexachlorobutadiene	1100	10
59-50-7	-4-Chloro-3-Methylphenol	1100	10
31-57-6	-2-Methylnapthalene	35	10
77-47-4	-hexachlorocyclopentadiene	1100	10
68-06-2	-2,4,6-Trichlorophenol	1100	10
12-92-4	-2,4,5-Trichlorophenol	2700	10
31-56-7	-2-Chloronaphthalene	1100	10
59-74-4	-1-Nitroaniline	2700	10
131-11-3	-Dimethylphthalate	1100	10
108-96-3	-Acenaphthylene	1100	10
106-30-2	-1,4-Dinitrotoluene	1100	10
77-00-1	-3-Nitroaniline	2700	10
33-32-7	-Acenaphthene	1100	10

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SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET

Lab Name: CLAYTON NOVI

Contract: 60-0-0007

EMT97

Lab Code: CLAYTN Case No.: 18563

SAS No.:

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990352

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F8464

Level: (low/med) LOW

Date Received: 08/12/92 9-15

% Moisture: 70 decanted: (Y/N) N

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GC Cleanup: (Y/N) Y pH: 6.5

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND			
51-28-5	-2,4-Dinitrophenol	2700	IU	
100-02-7	-4-Nitrophenol	2700	IU	
132-64-9	-Dibenzofuran	1100	IU	
121-14-2	-2,4-Dinitrotoluene	1100	IU	
84-66-2	-Diethylphthalate	1100	IU	
7005-72-3	-4-Chlorophenyl-phenylether	1100	IU	
86-73-7	-Fluorene	120	IJ	
100-01-6	-4-Nitroaniline	2700	IJ	UJ
534-52-1	-4,6-Dinitro-2-methylphenol	2700	IU	
38-30-6	-N-Nitrosodiphenylamine (I)	1100	IJ	
134-66-3	-4-Bromophenyl-phenylether	1100	IU	
116-74-1	-Hexachlorobenzene	1100	IU	
37-86-5	-Pentachlorophenol	2700	IU	
62-01-8	-Phenanthrene	1300	I	
120-12-7	-Anthracene	180	IJ	
86-74-8	-Carbazole	250	IJ	
84-74-2	-Di-n-Butylphthalate	1100	IJ	UJ
260-44-0	-Fluoranthene	2600	I	
120-00-0	-Pyrene	2300	I	
63-56-7	-Butylbenzylphthalate	160	IJ	
51-54-1	-3,5'-Dichlorobenzidine	1100	IJ	UJ
59-93-3	-Benz(a)Anthracene	1200	I	
213-01-9	-Chrysene	1000	I	
117-81-7	-o(isobutynyl)Phthalate	450	IJ	
117-84-0	-Di-n-Octyl Phthalate	1100	IU	
126-90-2	-Benz(3)Fluoranthene	2600	I	
127-08-9	-Benz(k)Fluoranthene	800	IJ	
50-32-8	-Benz(a)Pyrene	1400	I	
103-30-2	-Indeno(1,2,3-cd)Pyrene	2200	I	J
53-78-1	-Benz(a,n)Anthracene	520	IJ	
111-24-2	-Benz(g,n,1)Perylene	1000	I	

J = Cannot be separated from Diphenylamine

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CLAYTON NOVI

Contract: 63-D1-0087

EMT98

Lab Code: CLHYTN Case No.: 18569

SAS No.:

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990853

Sample wt/vol: 30.0 (g/mL)

Lab File ID: F8473

Level: (low/med) LOW

Date Received: 08/12/92 1-E

x Moisture: 30 decanted: (Y/N) N

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND			
108-95-2	-Phenol	410	IU	
111-44-4	-bis(2-Chloroethyl)Ether	410	IU	
95-57-8	-2-Chlorophenol	410	IU	
541-73-1	-1,3-Dichlorobenzene	410	IU	
106-46-7	-1,4-Dichlorobenzene	410	IU	
95-50-1	-1,2-Dichlorobenzene	410	IU	
95-48-7	-2-Methylphenol	410	IU	
108-60-1	-2,2'-oxybis(1-Chloropropane)	410	IU	
106-44-5	-4-Methyiphenol	410	IU	
621-64-7	-N-Nitroso-Di-n-Propylamine	410	IU	
67-72-1	-Hexachloroethane	410	IU	
98-95-3	-Nitrobenzene	410	IU	
78-59-1	-Isophorone	410	IU	
38-73-5	-2-Nitrophenol	410	IU	
105-67-9	-2,4-Dimethylphenol	410	IU	
111-91-1	-bis(2-Chloroethoxy)Methane	410	IU	
120-83-2	-2,4-Dichlorophenol	410	IU	
120-84-1	-1,2,4-Trichlorobenzene	410	IU	
91-80-3	-Naphthalene	64	IJ	
106-47-8	-4-Chloroaniline	410	IU	
87-68-3	-Hexaaciorebutadiene	410	IU	
59-80-7	-4-Chloro-3-Methylphenol	410	IU	
11-57-6	-2-Methylnaphthalene	410	IU	
77-47-4	-Hexaaciorecylopentadiene	410	IU	
58-06-2	-2,4,6-Trichlorophenol	410	IU	
75-05-4	-1,2,5-Trichlorophenol	1000	IU	
74-35-7	-2-Chloronaphthalene	410	IU	
63-74-4	-2-Nitroaniline	1000	IU	
121-11-3	-Dimethyipnthalate	410	IU	
208-90-3	-Acenaphtnylene	410	IU	
506-50-2	-2,6-Dinitrotoluene	410	IU	
97-09-2	-2-N-troaniline	1000	IU	
53-32-9	-Acenapthene	160	IJ	

SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CLAYTON NOVI

Contract: 68-01-0087

EMT98

Lab Code: CLAYTN Case No.: 18569 SGS No.: _____

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990853

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F8473

Level: (low/med) LOW

Date Received: 08/13/92 9-15

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND	UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	1000	IU
100-02-7-----	4-Nitrophenol	1000	IU
132-64-9-----	Dibenzofuran	110	IJ
121-14-2-----	2,4-Dinitrotoluene	410	IU
84-66-2-----	Diethylphthalate	410	IU
7005-72-3-----	4-Chlorophenyl-phenylether	410	IU
86-73-7-----	Fluorene	510	IJ
100-01-6-----	4-Nitroaniline	1000	UJ 4J
534-52-1-----	4,6-Dinitro-2-methoxyphenol	1000	IU
66-34-6-----	N-Nitrosodiphenylamine (1)	+10	IU
101-35-3-----	4-Bromophenyl-phenylether	+10	IU
113-74-1-----	Hexachlorobenzene	+10	IU
87-86-5-----	Fentachlorophenol	1000	IU
85-01-8-----	Phenanthrene	1000	I
120-12-7-----	Anthracene	510	IJ
86-74-8-----	Carbazole	220	IJ
84-74-2-----	Di-n-Butylphthalate	410	UJ uJ
206-44-0-----	Fluoranthene	2700	I
120-00-0-----	Pyrene	1700	I
85-38-7-----	Butylbenzylphthalate	+10	IU
91-74-1-----	3,3'-Dichlorooxazidine	410	UJ 4J
56-55-3-----	Benz(a)Anthracene	510	I
218-01-9-----	Chrysene	590	I
117-81-7-----	0,1-Ethynediyl Phthalate	320	IJ
117-84-0-----	Di-n-Octyl Phthalate	410	IU
103-77-2-----	Benz(b)Fluoranthene	1100	I
107-00-9-----	Benz(k)Fluoranthene	520	I
50-32-8-----	Benz(a)Pyrene	730	I
193-30-5-----	Indeno(1,2,3-cd)Pyrene	1000	I J
53-70-3-----	Dibenz(a,h)Anthracene	130	IJ
191-24-2-----	Benz(a,g,n,i,Perylene	510	I

-- - Cannot be separated from Diphenylamine

IB
SEMI VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CLAYTON NOVI

Contract: 68-01-0067

EMT99

Lab Code: CLAYTN Case No.: 3569

SAS No.:

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 030854

Sample wt/vol: 30.0 (g/mL) S

Lab File ID: F8465

Level: (low/med) LOW

Date Received: 08/13/92 9:15

% Moisture: 48 decanted: (Y/N) Y

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

HPLC Cleanup: (Y/N) Y pH: 6.7

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND	630	IU
108-95-2	Phenol	630	IU
111-44-4	bis(E-Chloroethyl)Ether	630	IU
95-57-8	2-Chlorophenol	630	IU
541-73-1	1,3-Dichlorobenzene	630	IU
106-46-7	1,4-Dichlorobenzene	630	IU
95-50-1	1,2-Dichlorobenzene	630	IU
95-48-7	2-Methylphenol	630	IU
108-60-1	2,2'-oxybis(1-Chloropropane)	630	IU
126-44-5	4-Methylphenol	630	IU
621-64-7	N-Nitroso-Di-n-Propylamine	630	IU
67-72-1	Hexachloroethane	630	IU
98-95-3	Nitrobenzene	630	IU
78-59-1	Isophorone	630	IU
68-75-5	2-Nitrophenol	630	IU
105-67-9	2,4-Dimethylphenol	630	IU
111-91-1	bis(E-Chloroethoxy)Methane	630	IU
120-83-2	2,4-Dichlorophenol	630	IU
120-82-1	1,2,4-Trichlorobenzene	630	IU
91-20-3	Napthalene	630	IU
106-47-8	4-Chloraniline	630	IU
87-65-3	Hexachlorobutadiene	630	IU
59-30-7	4-Chloro-3-Methylphenol	630	IU
91-57-6	2-Methylnapthalene	630	IU
77-47-4	Hexachlorocyclopentadiene	630	IU
88-06-2	2,4,6-Trichlorophenol	630	IU
95-95-4	2,4,5-Trichlorophenol	1300	IU
91-58-7	2-Chloronaphthalene	630	IU
68-74-4	2-Nitroaniline	1300	IU
131-11-3	Dimethylphthalate	630	IU
208-96-8	Acenaphthylene	630	IU
500-20-2	2,6-Dinitrotoluene	630	IU
99-09-2	3-Nitroaniline	1300	IU
83-32-9	Acenaphthene	630	IU

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IC
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

EMT99

Lab Name: CLAYTON NOVI Contract: 66-01-0087

Lab Code: CLAYTN Case No.: 18569 SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL Lab Sample ID: 990854

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F8465

Level: (low/med) LOW Date Received: 08/13/92 4J

% Moisture: 48 decanted: (Y/N) Y Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	UG/KG	Q
51-28-5	2,4-Dinitrophenol	1500	IU
100-02-7	4-Nitrophenol	1500	IU
132-64-9	Dibenzofuran	630	IU
121-14-2	2,4-Dinitrotoluene	630	IU
84-66-2	Diethylphthalate	630	IU
7005-72-3	4-Chlorophenyl-phenylether	630	IU
86-73-7	Fluorene	630	IU
100-01-6	4-Nitroaniline	1500	4J
534-52-1	4,6-Dinitro-2-methylphenol	1500	IU
36-30-6	N-Nitrosodiphenylamine (1)	630	IU
101-53-3	4-Bromophenyl-phenylether	630	IU
118-74-1	Hexachlorobenzene	630	IU
87-86-5	Pentachlorophenol	1500	IU
85-01-8	Phenanthrene	800	I
120-12-7	Anthracene	120	IJ
86-74-8	Carbazole	100	IJ
84-74-2	Di-n-Butylphthalate	630	4J
206-44-0	Fluoranthene	1900	I
129-00-0	Pyrene	1700	I
85-68-7	Butylbenzylphthalate	91	IJ
501-94-1	3,3'-Dichlorobenzidine	630	4J
56-55-3	Benz(a)anthracene	370	I
210-01-9	Chrysene	1000	I
117-81-7	Ois(2-Ethylhexyl)Phthalate	340	IJ
117-84-0	Di-n-Octyl Phthalate	630	IU
205-93-2	Benz(a)Fluoranthene	2600	I
207-08-9	Benzo(k)Fluoranthene	630	IU
50-32-8	Benzo(a)Pyrene	450	I
103-39-5	Indeno(1,2,3- <i>cd</i>)Pyrene	1400	J
53-70-3	Dibenzo(a,n)Anthracene	350	IJ
120-64-2	Benzo(g,h,i)Perylene	650	I

(1) - Cannot be separated from Diphenylamine

18509.5

EPA SAMPLE NO.

B
SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CLAYTON NOVI

Contract: 63-I-0087

ERL01

Lab Code: CLAYTN Case No.: 13563

SAS No.: SDG No.: ENT37

Matrix: (soil/water) SOIL

Lab Sample ID: 990655

Sample wt/vol: 30.0 (g/mL) S

Lab File ID: F8466

Level: (low/med) LOW

Date Received: 08/16/92 9-15-

X Moisture: 38 decanted: (Y/N) Y

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
108-95-2	Phenol	530	IU
111-44-4	bis(2-Chloroethyl)Ether	530	IU
95-57-8	2-Chlorophenol	530	IU
541-73-1	1,3-Dichlorobenzene	530	IU
106-46-7	1,4-Dichlorobenzene	530	IU
95-50-1	1,2-Dichlorobenzene	530	IU
95-48-7	2-Methyiphenol	530	IU
108-60-1	2,3'-Oxybis(1-Chloropropane)	530	IU
106-44-5	4-Methylphenol	530	IU
621-64-7	N-Nitroso-Di-n-Propylamine	530	IU
67-72-1	Hexachloroethane	530	IU
93-95-3	Nitrobenzene	530	IU
70-59-1	Isophorone	530	IU
58-75-5	2-Nitrophenol	530	IU
105-67-9	2,4-Dimethylphenol	530	IU
111-91-1	bis(2-Chloroethoxy)Methane	530	IU
120-83-2	2,4-Dichlorophenol	530	IU
120-82-1	1,2,4-Trichlorobenzene	530	IU
91-20-3	Naphthalene	530	IU
106-47-8	4-Chloroaniline	530	IU
37-68-3	Hexachlorobutadiene	530	IU
30-50-7	4-Chloro-3-Methyiphenol	530	IU
71-57-6	2-Methylnaphthalene	530	IU
77-47-4	Hexachlorocyclopentadiene	530	IU
68-06-2	2,4,6-Trichlorophenol	530	IU
95-95-4	2,4,5-Trichlorophenol	1300	IU
91-58-7	2-Chloronaphthalene	530	IU
68-74-4	2-Nitroaniline	1300	IU
131-11-3	Dimethylphthalate	530	IU
308-98-8	Acenaphthylene	530	IU
606-20-2	2,6-Dinitrotoluene	530	IU
30-09-2	3-Nitroaniline	1300	IU
83-32-9	Acenaphthene	530	IU

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ERL01

Lab Name: CLAYTON NOVI

Contract: 68-01-0087

Lab Code: CLAYTN Case No.: 16569

SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990855

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F8466

Level: (low/med) LOW

Date Received: 08/12/92 9-E

Moisture: 38 decanted: (Y/N) Y

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
51-28-5	2,4-Dinitrophenol	1300	IU
100-02-7	4-Nitrophenol	1300	IU
132-64-9	Dibenzofuran	530	IU
121-14-2	2,4-Dinitrotoluene	530	IU
84-66-2	Diethylphthalate	530	IU
7005-72-3	4-Chlorophenyl-phenylether	530	IU
86-73-7	Fluorene	530	IU
100-01-6	4-Nitroaniline	1300	WJ
534-52-1	4,6-Dinitro-2-methylphenol	1300	IU
86-30-6	N-Nitrosodiphenylamine (1)	530	IU
101-55-3	4-Bromophenyl-phenylether	530	IU
110-74-1	hexachlorobenzene	530	IU
67-86-5	Pentachlorophenol	1300	IU
85-01-8	Phenanthrene	560	I
120-12-7	Anthracene	75	IJ
36-74-8	Carbazole	62	IJ
84-74-2	Di-n-Butylphthalate	530	WJ
206-44-0	Fluoranthene	1300	I
129-00-0	Pyrene	980	I
55-68-7	Butylbenzylphthalate	530	IU
91-94-1	3,3'-Dichlorobenzidine	530	WJ
56-55-3	Benz(a)Anthracene	530	I
218-01-9	Chrysene	630	I
117-81-7	bis(2-Ethyhexyl)Phthalate	570	IJ
117-84-0	Di-n-Octyl Phthalate	530	IU
105-90-2	Benz(b)Fluoranthene	500	I
207-08-9	Benz(k)Fluoranthene	530	IU
50-32-8	Benz(a)Pyrene	570	I
193-39-3	Indeno(1,2,3-cd)Pyrene	330	IJ
50-70-1	Dioenz(a,c)Anthracene	330	IJ
111-24-2	Benzo(g,h,i)Perylene	460	IJ

-- Cannot be separated from Diphenylamine

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CLAYTON NOVI

Contract: 68-01-0087

ERL02

Lab Code: CLAYTN Case No.: 3563

SAS No.: _____

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990856

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F6474

Level: (low/med) LOW

Date Received: 08/13/92 7.15

% Moisture: 47 decanted: (Y/N) Y

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

EPC Cleanup: (Y/N) Y pH: 6.7

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND			
108-95-2	Phenol	1200	IU	
111-44-4	bis(2-Chloroethyl)Ether	1200	IU	
95-57-8	2-Chlorophenol	1200	IU	
541-73-1	1,3-Dichlorobenzene	1200	IU	
106-46-7	1,4-Dichlorobenzene	1200	IU	
95-50-1	1,2-Dichlorobenzene	1200	IU	
95-48-7	2-Methylphenol	1200	IU	
108-60-1	2,2'-Oxybis(1-Chloropropane)	1200	IU	
106-44-5	4-Methylphenol	1200	IU	
62-64-7	N-Nitrosodi-n-Propylamine	1200	IU	
67-72-1	Hexachloroethane	1200	IU	
33-95-3	Nitrobenzene	1200	IU	
78-39-1	Isophorone	1200	IU	
88-75-5	2-Nitrophenol	1200	IU	
105-67-9	2,4-Dimethylphenol	1200	IU	
111-91-1	bis(2-Chloroethoxy)Methane	1200	IU	
120-83-2	2,4-Dichlorophenol	1200	IU	
120-82-1	1,2,4-Trichlorobenzene	1200	IU	
31-20-3	Naphthalene	1200	IU	
108-47-8	4-Chloraniline	1200	IU	
67-68-3	Hexachlorobutadiene	1200	IU	
29-50-7	4-Chloro-3-Methylphenol	1200	IU	
91-57-6	2-Methylnaphthalene	1200	IU	
77-47-4	Hexachlorocyclopentadiene	1200	IU	
38-06-2	2,4,6-Trichlorophenol	1200	IU	
95-95-4	2,4,5-Trichlorophenol	3000	IU	
91-58-7	2-Chloronaphthalene	1200	IU	
38-74-4	2-Nitroaniline	3000	IU	
131-11-3	Dimethyliphtalate	1200	IU	
208-96-8	Acenaphthylene	1200	IU	
606-20-2	2,6-Dinitrotoluene	1200	IU	
23-05-2	3-Nitroaniline	3000	IU	4J
53-32-5	Acenaphthene	1200	IU	

1C

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CLAYTON NOVI

Contract: 63-DI-0087

ERLOE

Lab Code: CLAYTN Case No.: 3569

SAG No..

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990856

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: FS474

Level: (low/med) LOW

Date Received: 08/13/92 9-15

% Moisture: 47 decanted: (Y/N) Y

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 6.7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	UG/KG	Q
51-28-5	2,4-Dinitrophenol	3000	IU
100-02-7	4-Nitrophenol	3000	IU
132-64-9	Dibenzofuran	240	IJ
121-14-2	2,4-Dinitrotoluene	1200	IU
84-66-2	Diethylphthalate	1200	IU
7005-72-3	4-Chlorophenyl-phenylether	1200	IU
86-73-7	Fluorene	460	IJ
100-01-6	4-Nitroaniline	3000	IU
534-52-1	4,6-Dinitro-2-methylphenol	3000	IU
36-38-6	N-Nitrosodiphenylamine (I.)	1200	IU
101-55-3	4-Bromophenyl-phenylether	1200	IU
116-74-1	Hexachlorobenzene	1200	IU
87-86-5	Pentachlorophenol	3000	IU
85-01-8	Phenanthrene	3000	I
120-12-7	Anthracene	630	IJ
86-74-6	Carbazole	550	IJ
84-74-2	Di-n-Butylphthalate	1200	IU
206-44-0	Fluoranthene	6600	I
129-00-0	Pyrene	5000	I
85-66-7	Butylbenzylphthalate	130	IJ
51-94-1	3,3'-Dichlorobenzidine	1200	IU
56-55-3	Benz(a)Anthracene	3700	I
210-01-9	Chrysene	3000	I
117-81-7	13-(1-Ethylhexyl) Phthalate	4500	I
117-84-0	Di-n-Octyl Phthalate	320	IJ
205-79-2	Benz(b)Fluoranthene	1200	IJ
207-08-9	Benz(k)Fluoranthene	4100	I
56-32-8	Benz(a)Pyrene	2200	I
193-39-5	Indeno(1,2,3- <i>cd</i>)Pyrene	3100	I
53-70-3	Dibenz(a,h)Anthracene	350	IJ
191-24-2	Benz(g,n,1)Perylene	1700	I

(I) - Cannot be separated from Diphenylamine

392

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE ..

ERL03

Lab Name: CLAYTON NOVI

Contract: 68-D1-0087

Lab Code: CLAYTH Case No.: 3564

SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990857

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F8468

Level: (low/med) LOW

Date Received: 08/13/92

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG
108-95-2	Phenol	400 IU
111-44-4	bis(2-Chloroethyl)Ether	400 IU
95-57-8	2-Chlorophenol	400 IU
541-73-1	1,3-Dichlorobenzene	400 IU
106-46-7	1,4-Dichlorobenzene	400 IU
95-50-1	1,2-Dichlorobenzene	400 IU
95-48-7	2-Methylphenol	400 IU
108-60-1	E,E'-oxybis(1-Chloropropane)	400 IU
106-44-5	4-Methylphenol	400 IU
621-64-7	N-Nitroso-Di-n-Propylamine	400 IU
67-72-1	Hexachloroethane	400 IU
38-95-3	Nitrobenzene	400 IU
78-59-1	Isophorone	400 IU
68-73-5	2-Nitrophenol	400 IU
105-67-9	E,4-Dimethylphenol	400 IU
111-91-1	bis(2-Chloroethoxy)Methane	400 IU
120-83-2	2,4-Dichlorophenol	400 IU
120-82-1	1,2,4-Trichlorobenzene	400 IU
91-20-3	Naphthalene	400 IU
106-47-8	4-Chloroaniline	400 IU
37-68-3	Hexachlorobutadiene	400 IU
59-50-7	4-Chloro-3-Methylphenol	400 IU
91-37-6	2-Methylnaphthalene	400 IU
77-47-4	Hexachlorocyclopentadiene	400 IU
38-66-2	E,4,5-Trichlorophenol	400 IU
95-05-4	E,4,5-Trichlorophenol	360 IU
91-38-7	2-Chloronaphthalene	400 IU
38-74-4	E-Nitroaniline	360 IU
131-11-3	Dimethylphthalate	400 IU
208-76-3	Acenaphthyliene	400 IU
206-80-2	E,3-Dinitrotoluene	400 IU
23-09-2	3-Nitroaniline	360 IU
63-32-7	Mecaphtnene	400 IU

4J

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SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CLAYTON HOU

Contract: 68-DI-00087

ERL03

Lab Code: CLAYTN Case No.: 18569

SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 390857

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F8468

Level: (low/med) LOW

Date Received: 08/16/92 9-15

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	UG/KG	Q
51-28-5	2,4-Dinitrophenol	960	IU
100-02-7	4-Nitrophenol	960	IU
132-64-9	Dibenzofuran	400	IU
121-14-2	2,4-Dinitrotoluene	400	IU
84-66-2	Diethylphthalate	400	IU
7005-72-3	4-Chlorophenyl-phenylether	400	IU
86-73-7	Fluorene	400	IU
100-01-6	4-Nitroaniline	960	W 4J
534-52-1	4,6-Dinitro-2-methyiphenol	960	IU
86-30-6	N-Nitrosodiphenylamine (1)	400	IU
101-55-3	4-Bromophenyl-phenylether	400	IU
118-74-1	Hexachlorobenzene	400	IU
87-86-5	Pentachlorophenol	960	IU
85-01-8	Phenanthrene	140	IJ
120-12-7	Anthracene	400	IU
86-74-8	Carbazole	400	IU
84-74-2	Di-n-Butylphthalate	400	W 4J
206-44-0	Fluoranthene	240	IJ
129-00-0	Pyrene	240	IJ
85-68-7	Butylbenzylphthalate	400	IU
91-34-1	3,3'-Dichlorobenzidine	400	W 4J
56-55-3	Benz(a)Anthracene	120	IJ
218-01-9	Chrysene	130	IJ
117-81-7	bis(2-Ethylhexyl)Phthalate	110	IJ
117-84-0	Di-n-Octyl Phthalate	400	IU
205-90-2	Benzo(a)Fluoranthene	240	IJ
207-08-9	Benzo(a,h)Fluoranthene	400	IU
50-32-3	Benz(a)Pyrene	400	IU
193-39-5	Indeno(1,2,3-cd)Pyrene	400	W 4J
53-70-3	Biphenyl(a,h)Anthracene	400	IU
131-24-2	Benzo(g,h,i)Perylene	75	IJ

(1) - Cannot be separated from Diphenylamine

8559-5

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CLAYTON NOVI

Contract: 66-DI-0087

ERL04

Lab Code: CLAYTN Case No.: 18569

SAS No.: _____

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 390858

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F8469

Level: (low/med) LOW

Date Received: 08/13/92 9-1

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND		
106-95-2	Phenol	370	IU
111-44-4	bis(2-Chloroethyl)Ether	370	IU
95-57-8	2-Chlorophenol	370	IU
541-73-1	1,3-Dichlorobenzene	370	IU
106-46-7	1,4-Dichlorobenzene	370	IU
95-50-1	1,2-Dichlorobenzene	370	IU
95-48-7	2-Methylphenol	370	IU
108-60-1	2,2'-oxybis(1-Chloropropane)	370	IU
106-44-5	4-Methylphenol	370	IU
621-64-7	N-Nitroso-Di-n-Propylamine	370	IU
67-72-1	Hexachloroethane	370	IU
98-95-3	Nitrobenzene	370	IU
78-59-1	Isophorone	370	IU
88-75-5	2-Nitrophenol	370	IU
105-67-9	2,4-Dimethylphenol	370	IU
111-91-1	bis(2-Chloroethoxy)Methane	370	IU
120-83-2	2,4-Dichlorophenol	370	IU
120-82-1	1,2,4-Trichlorobenzene	370	IU
91-20-3	Naphthalene	370	IU
106-47-8	4-Chloroaniline	370	IU
87-68-3	Hexachlorobutadiene	370	IU
29-30-7	4-Chloro-3-Methylphenol	370	IU
91-57-6	2-Methylnaphthalene	370	IU
77-47-4	Hexachlorocyclopentadiene	370	IU
88-06-2	2,4,6-Trichlorophenol	370	IU
53-93-4	2,4,5-Trichlorophenol	690	IU
51-58-7	2-Chloronaphthalene	370	IU
68-74-4	2-Nitroaniline	690	IU
131-11-3	Dimethylphthalate	370	IU
100-90-5	Acenaphthylene	370	IU
666-20-2	2,5-Dinitrotoluene	370	IU
99-09-2	3-Nitroaniline	360	WJ
83-32-4	Acenaphthene	370	IU

1C
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO _____

Lab Name: CLAYTON NOVI

Contract: 68-D1-0087

ERL04

Lab Code: CLAYTN Case No.: 18565 SAS No.: _____

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990858

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F8469

Level: (low/med) LOW

Date Received: 08/12/92 7-15-

X Moisture: 10 decanted: (Y/N) N

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND			
51-28-5	-2,4-Dinitrophenol	890	IU	
100-02-7	-4-Nitrophenol	890	IU	
132-64-9	-Dibenzofuran	370	IU	
121-14-2	-2,4-Dinitrotoluene	370	IU	
84-66-2	-Diethylphthalate	370	IU	
7005-72-3	-4-Chlorophenyl-phenylether	370	IU	
86-73-7	-Fluorene	48	IJ	
100-01-6	-4-Nitroaniline	890	IJ	4J
534-52-1	-4,6-Dinitro-2-methylphenol	890	IU	
66-30-6	-N-Nitrosodiphenylamine (1)	370	IU	
101-55-3	-4-Bromophenyl-phenylether	370	IU	
118-74-1	-Hexachlorobenzene	370	IU	
87-86-5	-Pentachlorophenol	890	IU	
65-01-8	-Phenanthrene	500	I	
120-12-7	-Anthracene	94	IJ	
36-74-8	-Carbazole	75	IJ	
84-74-c	-Di-n-Butylphthalate	370	IJ	4J
206-44-0	-Fluoranthene	660	I	
129-00-0	-Pyrene	600	I	
65-66-7	-Butyibenzylphthalate	370	IU	
91-94-1	-3,3'-Dichlorobenzidine	370	IJ	4J
56-55-3	-Benzo(a)Anthracene	320	IJ	
218-01-9	-Chrysene	300	IJ	
117-81-7	-bis(2-Ethyhexyl)Phthalate	56	IJ	
117-84-0	-Di-n-Octyl Phthalate	370	IU	
205-99-2	-Benzo(b)Fluoranthene	300	IJ	
307-08-5	-Benzo(k)Fluoranthene	180	IJ	
50-32-8	-Benzo(a)Pyrene	280	IJ	
193-39-5	-Indeno(1,2,3-cd)Pyrene	340	IJ	J
53-70-3	-Dibenz(a,n)Anthracene	370	IU	
161-24-c	-Benzog, n, 1-Perylene	290	IJ	

J = Cannot be separated from Diphenylamine

18563-5

EPA SAMPLE NO

1B

SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CLAYTON NCVI

Contract: 68-01-0087

ERL05

Lab Code: CLAYTN Case No.: 13563

SAS No.: SDG No.: EMT57

Matrix: (Soil/Water) SOIL

Lab Sample ID: 390855

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F8470

Level: (low/med) LOW

Date Received: 08/23/92 1-K

% Moisture: 39 decanted: (Y/N) N

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND		
108-93-2	-Phenol	540	IU
111-44-4	-bis(2-Chloroethyl)Ether	540	IU
95-57-8	-2-Chlorophenol	540	IU
541-73-1	-1,3-Dichlorobenzene	540	IU
106-46-7	-1,4-Dichlorobenzene	540	IU
95-50-1	-1,2-Dichlorobenzene	540	IU
95-48-7	-2-Methylphenol	540	IU
108-64-1	-2,2'-oxybis(1-Chloropropane)	540	IU
106-44-5	-4-Methylphenol	540	IU
621-64-7	-N-Nitroso-Di-n-Propylamine	540	IU
67-72-1	-Hexachloroethane	540	IU
98-95-3	-Nitrobenzene	540	IU
78-59-1	-Isophorone	540	IU
88-75-5	-2-Nitrophenol	540	IU
105-67-9	-2,4-Dimethyiphenol	540	IU
111-91-1	-bis(2-Chloroethoxy)methane	540	IU
120-63-2	-2,4-Dichlorophenol	540	IU
120-62-1	-1,2,4-Trichlorobenzene	540	IU
91-20-3	-Naphthalene	540	IU
106-47-8	-4-Chloroaniline	540	IU
87-58-3	-Hexachlorobutadiene	540	IU
29-10-7	-4-Chloro-3-Methylphenol	540	IU
91-57-6	-2-Methylnaphthalene	540	IU
77-47-4	-hexachlorocyclopentadiene	540	IU
88-06-2	-2,4,6-Trichlorophenol	540	IU
95-63-4	-2,4,3-Trichloropropene	1300	IU
91-58-7	-2-Chloronaphthalene	540	IU
68-74-4	-2-Nitroaniline	1300	IU
131-11-2	-Dimethylphthalate	540	IU
208-96-8	-Acenaphthylene	540	IU
506-20-2	-2,6-Dinitrotoluene	540	IU
99-09-2	-3-Nitroaniline	1300	IU
83-32-9	-Acenaphthene	540	IU

1C
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ERL05

Lab Name: CLAYTON NOVI Contract: 68-01-0067

Lab Code: CLAYTN Case No.: 6569 SGS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL Lab Sample ID: 990359

Sample wt/vol: 30.0 (g/mL) S Lab File ID: F3470

Level: (low/med) LOW Date Received: 08/13/92 9-1

% Moisture: 39 decanted: (Y/N) N Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	UG/KG	Q
51-28-5	E,4-Dinitropnenol	1300	IU
100-02-7	4-Nitropnenol	1300	IU
132-64-9	Dibenzofuran	540	IU
121-14-2	E,4-Dinitrotoluene	540	IU
84-66-2	Diethylphthalate	540	IU
7005-72-3	+Chlorophenyl-pnenyletner	540	IU
86-73-7	Fluorene	540	IU
100-01-6	4-Nitroaniline	1300	IJ 4J
534-52-1	4,6-Dinitro-2-metnyiphenol	1300	IU
66-30-6	N-Nitrosodipnenyiamine (1)	540	IU
101-53-3	4-Bromophenyl-phenyietner	540	IU
118-74-1	Hexachlorobenzene	540	IU
87-86-5	Pentachloropnenol	1300	IU
85-01-8	Phenanthrene	540	IU
120-12-7	Anthracene	540	IU
86-74-8	Carbazole	540	IU
84-74-2	Di-n-Butyipnthalate	540	IJ 4J
200-44-0	Fluoranthene	540	IU
129-00-0	Pyrene	69	IJ
85-68-7	Butylbenzyipnthalate	540	IU
91-94-1	3,3'-Dichlorobenzidine	540	IJ 4J
56-35-3	Benzo(a) Anthracene	540	IU
218-01-9	Chrysene	540	IU
117-81-7	cis-1-Ethylinexyi Phthalate	210	IJ
117-94-0	Di-n-Octyl Phthalate	540	IU
205-99-2	Benzo(b) Fluoranthene	540	IU
207-08-9	Benzo(k) Fluoranthene	540	IU
50-32-8	Benzo(a) Pyrene	540	IU
193-39-5	Indeno(1,2,3-cd) Pyrene	540	IJ 4J
53-70-3	Dibenz(a,n) Anthracene	540	IU
101-24-2	Benz(a,g,h,i) Perylene	540	IU

(i) - Cannot be separated from Dipnenyiamine

IB
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

Lab Name: <u>CLAYTON NOVI</u>	Contract: <u>68-DI-0087</u>	ERL06	
Lab Code: <u>CLAYTN</u>	Case No.: <u>18563</u>	SAS No.: _____ SDG No.: <u>EMT97</u>	
Matrix: (soil/water) <u>SOIL</u>	Lab Sample ID: <u>990660</u>		
Sample wt/vol: <u>30.0</u> (g/mL) <u>G</u>	Lab File ID: <u>F8471</u>		
Level: (low/med) <u>LOW</u>	Date Received: <u>08/18/92</u> 7-15		
% Moisture: <u>30</u> decanted: (Y/N) <u>Y</u>	Date Extracted: <u>08/13/92</u>		
Concentrated Extract Volume: <u>500.0</u> (uL)	Date Analyzed: <u>08/26/92</u>		
Injection Volume: <u>2.0</u> (uL)	Dilution Factors: <u>1.0</u>		
GPC Cleanup: (Y/N) <u>Y</u>	pH: <u>7.1</u>		
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2-----Phenol		470	IU
111-44-4-----bis(2-Chloroethyl)Ether		470	IU
95-57-8-----2-Chlorophenol		470	IU
541-73-1-----1,3-Dichlorobenzene		470	IU
106-46-7-----1,4-Dichlorobenzene		470	IU
95-50-1-----1,2-Dichlorobenzene		470	IU
95-48-7-----2-Methylphenol		470	IU
106-60-1-----2,2'-oxybis(1-Chloropropane)		470	IU
106-44-5-----4-Methyphenol		470	IU
621-64-7-----N-Nitroso-Di-n-Propylamine		470	IU
67-72-1-----Hexachloroethane		470	IU
98-95-3-----Nitrobenzene		470	IU
78-59-1-----Isophorone		470	IU
88-75-5-----2-Nitrophenol		470	IU
105-67-9-----2,4-Dimethylphenol		470	IU
111-91-1-----bis(2-Chloroethoxy)Methane		470	IU
120-83-2-----2,4-Dichlorophenol		470	IU
120-82-1-----1,2,4-Trichlorobenzene		470	IU
91-20-3-----Naphthalene		470	IU
106-47-8-----4-Chloroaniline		470	IU
67-68-3-----Hexachlorobutadiene		470	IU
29-50-7-----4-Chluro-3-Methylphenol		470	IU
91-57-9-----2-Methylnaphthalene		470	IU
77-47-4-----Hexachlorocyclopentadiene		470	IU
68-06-2-----2,4,6-Trichlorophenol		470	IU
15-95-4-----2,4,5-Trichloropheno		1100	IU
71-58-7-----2-Chloronaphthalene		470	IU
68-74-4-----2-Nitroaniline		1100	IU
131-11-3-----Dimethylphthalate		470	IU
205-96-0-----Acenaphthylene		470	IU
646-20-2-----1,6-Dinitrotoluene		470	IU
93-09-1-----3-Nitroaniline		1100	IU
63-32-9-----Acenaphthene		72	IJ

1C

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CLAYTON NOVI

Contract: 68-D1-0087

ERL06

Lab Code: CLAYTN Case No.: 18569

SAB No.: _____

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990860

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F8471

Level: (low/med) LOW

Date Received: 08/13/92 7-F

% Moisture: 30 decanted: (Y/N) Y

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

EFC Cleanup: (Y/N) Y pH: 7.1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
51-28-5	-2,4-Dinitrophenol	1100 IU
100-02-7	-4-Nitrophenol	1100 IU
132-64-9	-Dibenzofuran	50 IJ
121-14-2	-2,4-Dinitrotoluene	470 IU
84-66-2	-Diethylphthalate	470 IU
7005-72-3	-4-Chlorophenyl-phenylether	470 IU
86-73-7	-Fluorene	110 IJ
100-01-6	-4-Nitroaniline	1100 IU 4J
534-52-1	-4,6-Dinitro-2-methylphenol	1100 IU
56-30-6	-N-Nitrosodiphenylamine (1)	470 IU
101-55-3	-4-Bromophenyl-phenylether	470 IU
113-74-1	-Hexachlorobenzene	470 IU
87-86-5	-Pentachlorophenol	1100 IU
85-61-8	-Phenanthrene	1200 I
120-12-7	-Anthracene	210 IJ
86-74-8	-Carbazole	170 IJ
84-74-2	-Di-n-Butylphthalate	470 IU 4J
206-44-0	-Fluoranthene	2000 I
120-00-0	-Pyrene	2000 I
85-68-7	-Butylbenzylphthalate	150 IJ
91-44-1	-3,3'-Dichlorobenzidine	470 IU 4J
56-55-3	-Benzo(a)Anthracene	1000 I
518-01-9	-Chrysene	1100 I
117-81-7	-bis(2-Ethylhexyl)Phthalate	1500 I
117-64-0	-Di-n-Octyl Phthalate	470 IU
202-99-2	-Benzo(b)Fluoranthene	1200 I
207-08-9	-Benzo(k)Fluoranthene	470 IU
30-38-8	-Benzo(a)Pyrene	470 I
193-39-5	-Indeno(1,2,3-cd)Pyrene	1000 I J
53-70-3	-Dibenz(a,h)Anthracene	470 IJ
101-24-2	-Benzo(g,h,i)Perylene	350 I

(1) - Cannot be separated from Diphenylamine

542

IB
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ERL07

Lab Name: CLAYTON NOVI

Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 18569 SRS No.: _____

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990861

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F8472

Level: (low/med) LOW

Date Received: 08/13/92 9-1

% Moisture: 75 decanted: (Y/N) N

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg Q.

CAS NO. COMPOUND

108-95-2-----Phenol		1300	IU
111-44-4-----bis(2-Chloroethyl)Ether		1300	IU
95-57-8-----2-Chlorophenol		1300	IU
541-73-1-----1,3-Dichlorobenzene		1300	IU
106-46-7-----1,4-Dichlorobenzene		1300	IU
95-50-1-----1,2-Dichlorobenzene		1300	IU
95-48-7-----2-Methylphenol		1300	IU
108-60-1-----2,2'-oxybis(1-Chloropropane)		1300	IU
106-44-5-----4-Methylphenol		1300	IU
621-64-7-----N-Nitroso-Di-n-Propylamine		1300	IU
67-72-1-----Hexachloroethane		1300	IU
98-95-3-----Nitrobenzene		1300	IU
78-59-1-----Isopnororone		1300	IU
88-75-5-----2-Nitrophenol		1300	IU
105-67-9-----2,4-Dimethylphenol		1300	IU
111-91-1-----bis(2-Chloroethoxy)Methane		1300	IU
120-83-2-----2,4-Dichlorophenol		1300	IU
120-82-1-----1,2,4-Trichlorobenzene		1300	IU
91-20-3-----Naphthalene		1300	IU
106-47-8-----4-Chloroaniline		1300	IU
87-68-3-----Hexachlorobutadiene		1300	IU
59-30-7-----4-Chloro-3-Methyiphenol		1300	IU
91-57-6-----2-Methylnaphthalene		1300	IU
77-47-4-----Hexachlorocyclopentadiene		1300	IU
88-06-2-----2,4,6-Trichlorophenol		1300	IU
105-93-4-----2,4,5-Trichlorophenol		2200	IU
91-58-7-----2-Chloronaphthalene		1300	IU
68-74-4-----2-Nitroaniline		3200	IU
131-11-3-----Dimethylphthalate		1300	IU
208-96-8-----Acenaphthylene		1300	IU
506-20-2-----5,6-Dinitrotoluene		1300	IU
99-09-2-----3-Nitroaniline		3200	4J
33-32-9-----Acenaphtnene		1300	IU

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ERL07

Lab Name: CLAYTON NOVI

Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 18569

SAS No.: _____

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990861

Sample wt/vol: 30.0 (g/mL) 6

Lab File ID: F8472

Level: (low/med) LOW

Date Received: 08/13/92 9-E

% Moisture: 75 decanted: (Y/N) N

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/26/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	3200	IU
100-02-7-----	4-Nitropnenol	3200	IU
132-64-9-----	Dibenzofuran	1300	IU
121-14-2-----	2,4-Dinitrotoluene	1300	IU
84-66-2-----	Diethylphthalate	160	IJ
7005-72-3-----	4-Chlorophenyl-phenylether	1300	IU
86-73-7-----	Fluorene	1300	IU
100-01-6-----	4-Nitroaniline	3200	IJ UJ
534-52-1-----	4,6-Dinitro-2-methyiphenol	3200	IU
86-30-6-----	N-Nitrosodiphenylamine (1)	1300	IU
101-55-3-----	4-Bromophenyl-phenylether	1300	IU
118-74-1-----	Hexachlorobenzene	1300	IU
87-86-5-----	Pentachlorophenol	3200	IU
85-01-8-----	Phenanthrene	590	IJ
120-12-7-----	Anthracene	1300	IU
80-74-8-----	Caroazoie	1300	IU
84-74-2-----	Di-n-Butylphthalate	830	IJ J
206-44-0-----	Fluoranthene	400	I
129-00-0-----	Pyrene	1600	I
85-68-7-----	Butylbenzylpnthalate	820	IJ
91-94-1-----	3,3'-Dichlorobenzidine	1300	IJ UJ
56-55-3-----	Benz(a)Anthracene	1300	IJ
213-01-9-----	Chrysene	1100	IJ
117-81-7-----	bis(2-Ethyhexyl)Pnthalate	8600	I
117-84-0-----	Di-n-Octyl Phthalate	220	IJ
205-99-2-----	Benzo(b)Fluoranthene	1500	I
207-08-9-----	Benzo(k)Fluoranthene	670	IJ
30-32-8-----	Benzo(a)Pyrene	1100	IJ
193-39-5-----	Indeno(1,2,3-cd)Fyrene	1600	I J
53-70-3-----	Dibenz(a,h)Anthracene	390	IJ
101-24-2-----	Benzo(g,h,i)Perylene	950	IJ

14. - Cannot be separated from Diphenylamine

591

IB
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CLAYTON NOVI

Contract: 68-01-0087

ERL08

Lab Code: CLAYTN Case No.: 15563

SAS No.:

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990862

Sample wt/vol: 30.0 mg/mL G

Lab File ID: F6457

Level: (low/med) LOW

Date Received: 08/13/92 7-15

% Moisture: 23 decanted: (Y/N) Y

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/25/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

HPLC Cleanup: (Y/N) pH: 7.4CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
108-95-2	-Phenol	430 IU
111-44-4	-bis(2-Chloroethyl)Ether	430 IU
95-57-8	-2-Chlorophenol	430 IU
541-73-1	-1,3-Dichlorobenzene	430 IU
106-46-7	-1,4-Dichlorobenzene	430 IU
95-50-1	-1,2-Dichlorobenzene	430 IU
95-48-7	-2-Methyiphenol	430 IU
108-60-1	-2,2'-oxybis(1-Chloropropane)	430 IU
106-44-5	-4-Methylphenol	430 IU
621-64-7	-N-Nitroso-Di-n-Propylamine	430 IU
57-72-1	-Hexachloroethane	430 IU
96-95-3	-Nitrobenzene	430 IU
76-59-1	-Isophorone	430 IU
38-75-5	-2-Nitrophenol	430 IU
105-67-9	-2,4-Dimethylphenol	430 IU
111-91-1	-bis(2-Chloroethoxy)Methane	430 IU
120-83-2	-2,4-Dichlorophenol	430 IU
120-82-1	-1,2,4-Trichlorobenzene	430 IU
91-20-3	-Naphthalene	430 IU
106-47-8	-4-Chloraniline	430 IU
87-68-3	-Hexachlorobutadiene	430 IU
50-50-7	-4-Chloro-3-Methyiphenol	430 IU
91-57-6	-2-Methyinapnthalene	430 IU
77-47-4	-Hexachlorocyclopentadiene	430 IU
38-06-2	-2,4,6-Trichloropheno	430 IU
35-93-4	-2,4,5-Trichlorophenol	1000 IU
91-58-7	-2-Chloronaphtnaiene	430 IU
86-74-4	-2-Nitroaniline	1000 IU
131-11-3	-Dimethylphthalate	430 IU
308-96-8	-Acenapntnylene	430 IU
606-20-2	-c,b-Dinitrotoluene	430 IU
33-09-2	-3-Nitroaniline	1000 IU
33-32-9	-Acenaptnene	430 IU

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CLAYTON NOVI

Contract: 68-DI-0087

ERL08

Lab Code: CLAYTN Case No.: 18563 SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 390862

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F8457

Level: (low/med) LOW

Date Received: 08/13/92 9-13

% Moisture: 23 decanted: (Y/N) Y

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/25/92

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CONCENTRATION UNITS:
(ug/L or ug/Kg) uG/KG Q

CAS NO.	COMPOUND	Q
51-28-5	-2,4-Dinitrophenol	1000 IU
100-02-7	-4-Nitrophenol	1000 IU
132-64-9	-Dibenzofuran	430 IU
121-14-2	-2,4-Dinitrotoluene	430 IU
84-66-2	-Diethylphthalate	430 IU
7005-72-3	-4-Chlorophenyl-phenylether	430 IU
86-73-7	-Fluorene	430 IU
100-01-6	-4-Nitroaniline	1000 IU
534-52-1	-4,6-Dinitro-2-methylphenol	1000 IU
86-30-6	-N-Nitrosodiphenylamine (1)	430 IU
101-55-3	-4-Bromophenyl-phenylether	430 IU
118-74-1	-Hexachlorobenzene	430 IU
87-86-3	-Pentachlorophenol	1000 IU
35-01-8	-Phenanthrene	430 IU
120-12-7	-Anthracene	430 IU
86-74-8	-Carbazole	430 IU
84-74-2	-Di-n-Butylphthalate	430 IU
206-44-0	-Fluoranthene	230 IJ
129-00-0	-Pyrene	120 IJ
85-68-7	-Butylbenzylphthalate	430 IU
91-94-1	-3,3'-Dichlorobenzidine	430 IU
56-55-3	-Benzo(a)Anthracene	430 IU
218-01-9	-Chrysene	430 IU
117-81-7	-Bis(2-Etynylhexyl)Phthalate	97 IJ
117-84-0	-Di-n-Octyl Phthalate	430 IU
105-99-2	-Benzo(b)Fluoranthene	120 IJ
207-08-9	-Benzo(k)Fluoranthene	72 IJ
50-32-8	-Benzo(a)Pyrene	96 IJ
193-39-5	-Indeno(1,2,3- <i>cd</i>)Pyrene	430 IU
53-70-3	-Dibenz(a,h)Anthracene	430 IU
171-24-2	-Benzog,h,i/Perylene	430 IU

(1) - Cannot be separated from Diphenylamine

641

LB

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CLAYTON NOVI Contract: 08-01-0027

ERLOG

Lab Code: CLAYTN Case No.: 18569 SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL LEO Sample ID: 950863

Sample wt/vol: 30.0 (g/mL) 6 LEO File ID: F8458

Level: (low/med) LOW Date Received: 08/12/92

% Moisture: 59 decanted: (Y/N) Y Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 08/25/92

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg, UG/KG)	Q
108-95-2	Phenol	800	IU
111-44-4	bis(2-Chloroethyl)Ether	800	IU
95-57-6	2-Chlorophenol	800	IU
541-73-1	1,3-Dichlorobenzene	800	IU
106-46-7	1,4-Dichlorobenzene	800	IU
95-50-1	1,2-Dichloroethene	800	IU
95-48-7	2-Methylphenol	800	IU
108-60-1	2,2'-oxybis(1-Chloropropane)	800	IU
106-44-5	4-Methylphenol	800	IU
621-64-7	N-Nitroso-1-n-Propylamine	800	IU
67-72-1	Hexachloroethane	800	IU
98-95-3	Nitrobenzene	800	IU
78-59-1	Isophorone	800	IU
88-75-5	2-Nitrophenol	800	IU
105-67-9	2,4-Dimethylphenol	800	IU
111-91-1	bis(2-Chloroethoxy)Methane	800	IU
120-83-2	2,4-Dichlorophenol	800	IU
120-82-1	1,2,4-Trichlorobenzene	800	IU
91-20-3	Naphthalene	800	IU
106-47-8	4-Chloraniline	800	IU
87-68-3	Hexachlorobutadiene	800	IU
59-50-7	4-Chloro-3-Methylphenol	800	IU
91-57-6	2-Methylnaphthalene	800	IU
77-47-4	Hexachlorocyclopentadiene	800	IU
88-06-2	2,4,6-Trichlorophenol	800	IU
93-75-4	2,4,5-Trichlorophenol	2000	IU
91-58-7	2-Chloronaphthalene	800	IU
58-74-4	2-Nitroaniline	2000	IU
131-11-3	Dimethyliphtalate	800	IU
208-96-8	Acenaphthylene	800	IU
606-50-2	2,6-Dinitrotoluene	800	IU
99-09-2	3-Nitroaniline	2000	IU
83-32-9	Acenaphthene	800	IU

IC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

Lab Name: CLAYTON NOVI

Contract: 68-DI-0087

ERL09

Lab Code: CLAYTN Case No.: 18569

SAS No.: _____ SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990863

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: F8458

Level: (low/med) LOW

Date Received: 08/12/92

% Moisture: 59 decanted: (Y/N) Y

Date Extracted: 08/13/92

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 08/25/92

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND		
51-28-5	-2,4-Dinitrophenol	2000	IU
100-02-7	-4-Nitrophenol	2000	IU
132-64-9	-Dibenzofuran	800	IU
121-14-2	-2,4-Dinitrotoluene	800	IU
84-66-2	-Diethylphthalate	800	IU
7005-72-3	-4-Chlorophenyl-phenylether	800	IU
86-73-7	-Fluorene	800	IU
100-01-6	-4-Nitroaniline	2000	IU
534-52-1	-4,6-Dinitro-2-methylphenol	2000	IU
86-30-6	-N-Nitrosodiphenylamine (1)	800	IU
101-55-3	-4-Bromophenyl-phenylether	800	IU
118-74-1	-Hexachlorobenzene	800	IU
87-86-5	-Pentachlorophenol	2000	IU
85-01-8	-Phenanthrene	800	IU
120-12-7	-Anthracene	800	IU
86-74-8	-Carbazole	800	IU
84-74-2	-Di-n-Butylphthalate	800	IU
206-44-0	-Fluoranthene	800	IU
129-00-0	-Pyrene	42	IJ
85-68-7	-Butylbenzylphthalate	800	IU
91-94-1	-3,3'-Dichlorobenzidine	800	IU
56-55-3	-Benzo(a)Anthracene	800	IU
216-01-7	-Chrysene	800	IU
117-81-7	-bis(2-Ethyhexyl)Phthalate	800	IU
117-84-0	-Di-n-Octyl Phthalate	800	IU
305-99-2	-Benzo(b)Fluoranthene	800	IU
307-08-9	-Benzo(k)Fluoranthene	800	IU
50-32-8	-Benzo(a)Pyrene	800	IU
193-39-5	-Indeno(1,2,3-cd)Pyrene	300	IU
53-70-5	-Dibenz(a,h)Anthracene	300	IU
161-24-2	-Benzo(g,h,i)Perylene	300	IU

(1) - Cannot be separated from Diphenylamine

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CLAYTON NOVI

Contract: 63-01-3087

EMT97

Lab Code: CLAYTN Case No.: 18569 SAG No.: _____

SDG No.: EMT97

Matrix: soil/water: SOIL

Lab Sample ID: 690852

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 2 2009-15

% Moisture: 70 decanted: (Y/N) N

Date Received: 08/17/92

Extraction: (SepF/Cont/Sonic) SONC

Date Extracted: 08/18/92

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 08/28/92

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.3

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
319-84-6-----	alpha-BHC	5.71U	
319-85-7-----	beta-BHC	5.71U	
319-86-8-----	delta-BHC	5.71U	
58-99-9-----	gamma-BHC (Lindane)	5.71U	
76-44-8-----	Heptachlor	5.71U	
309-00-2-----	Aldrin	5.71U	
1024-57-3-----	Heptachlor epoxide	1.21JP	
959-98-8-----	Endosulfan I	5.71U	
60-57-1-----	Dieldrin	6.91JP	
70-55-9-----	4, 4'-DD	1.81JP	
72-80-8-----	Enorin	10 1JP	
33213-63-9-----	Endosulfan II	11 1U	
72-54-8-----	4, 4'-DDD	6.81JP	
1031-07-8-----	Endosulfan sulfate	11 1U	
50-29-3-----	4, 4'-DDT	11 1U	
72-43-5-----	Methoxychlor	57 1U	
53494-70-5-----	Enorin ketone	11 1U	
7421-93-4-----	Endrin aldehyde	11 1U	
5103-71-9-----	alpha-Chlordane	6.91P	
5103-74-3-----	gamma-Chlordane	5.21J	
8001-35-8-----	Tekaphene	570 1U	
12674-11-6-----	Aroclor-1016	110 1U	
11104-28-2-----	Aroclor-1221	220 1U	
11141-16-5-----	Aroclor-1232	110 1U	
53469-21-9-----	Aroclor-1242	110 1U	
12672-29-6-----	Aroclor-1248	110 1U	
11087-69-1-----	Aroclor-1254	110 1U	
11098-82-2-----	Aroclor-1260	110 1U	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

EMT98

Lab Code: CLAYTN Case No.: 18569 SAS No.: _____ SDG No.: EMT97Matrix: (soil/water) SOIL Lab Sample ID: 990853Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____% Moisture: 20 decanted: (Y/N) N Date Received: 08/18/92Extraction: (SepF/Cont/Sonic) SONC Date Extracted: 08/18/92Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/20/92Injection Volume: 1.00 (uL) Dilution Factor: 1.00GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6-----alpha-BHC		2.11U	
319-85-7-----beta-BHC		2.11U	
319-86-8-----delta-BHC		2.11U	
58-89-9-----gamma-BHC (Lindane)		2.11U	
76-44-8-----Heptachlor		2.11U	
309-00-2-----Aldrin		2.11U	
1024-57-3-----Heptachlor epoxide		2.11U	
959-98-8-----Endosulfan I		2.11U	
60-57-1-----Dieldrin		1.11JP	
72-55-9-----4, 4'-DDE		4.11U	
72-20-8-----Endrin		4.41P	
33213-65-9-----Endosulfan II		4.11U	
72-54-8-----4, 4'-DDD		4.11U	
1031-07-8-----Endosulfan sulfate		4.11U	
50-29-3-----4, 4'-DDT		4.11U	
72-43-5-----Methoxychlor		21 IU	
53494-70-5-----Endrin ketone		4.11U	
7421-93-4-----Endrin aldehyde		4.11U	
5103-71-9-----alpha-Chlordane		0.451JP	
5103-74-2-----gamma-Chlordane		1.01JP	
8001-35-2-----Toxaphene		210 IU	
12674-11-2-----Aroclor-1016		41 IU	
11104-28-2-----Aroclor-1221		84 IU	
11141-16-5-----Aroclor-1232		41 IU	
53469-21-9-----Aroclor-1242		41 IU	
12672-29-6-----Aroclor-1248		41 IU	
11097-69-1-----Aroclor-1254		41 IU	
11096-92-5-----Aroclor-1260		41 IU	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMT99

Lab Name: CLAYTON NOVI

Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 18569 SAS No.: _____

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 390854

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 48 decanted: (Y/N) Y

Date Received: 08/13/92 ^{a 0809-15-c}

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 08/18/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/28/92

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y

pH: 6.7

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
319-84-6-----	alpha-BHC	3.3IU	
319-85-7-----	beta-BHC	3.3IU	
319-86-8-----	delta-BHC	3.3IU	
58-89-9-----	gamma-BHC (Lindane)	3.3IU	
76-44-8-----	Heptachlor	3.3IU	
309-00-2-----	Aldrin	3.3IU	
1024-57-3-----	Heptachlor epoxide	3.3IU	
959-98-8-----	Endosulfan I	3.3IU	
60-57-1-----	Dieldrin	6.3IU	
72-55-9-----	4, 4'-DDE	2.61JP	
72-80-8-----	Endrin	2.31JP	
33213-65-9-----	Endosulfan II	6.3IU	
72-54-8-----	4, 4'-DDD	2.91JP	
1031-07-8-----	Endosulfan sulfate	6.3IU	
50-29-3-----	4, 4'-DDT	6.3IU	
72-43-5-----	Methoxychlor	33 IU	
53494-70-5-----	Endrin ketone	6.3IU	
7421-93-4-----	Endrin aldehyde	6.3IU	
5103-71-9-----	alpha-Chlordane	1.61JP	
5103-74-2-----	gamma-Chlordane	2.61J	
3001-35-2-----	Toxaphene	330 IU	
12674-11-2-----	Aroclor-1016	63 IU	
11104-28-2-----	Aroclor-1221	130 IU	
11141-16-5-----	Aroclor-1232	63 IU	
53469-21-9-----	Aroclor-1242	63 IU	
12672-29-6-----	Aroclor-1248	63 IU	
11097-69-1-----	Aroclor-1254	63 IU	
11096-82-5-----	Aroclor-1260	63 IU	

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ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ERL01

Lab Name: CLAYTON NOVI Contract: 66-01-0087

Lab Code: CLAYTN Case No.: 18569 SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL Lab Sample ID: 990855

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 38 decanted: (Y/N) Y Date Received: 08/18/92 a 20 09-15-0

Extraction: (SepF/Cont/Sono) SONC Date Extracted: 08/18/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/28/92

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
319-84-6	alpha-BHC	2.71U	1
319-85-7	beta-BHC	2.71U	1
319-86-8	delta-BHC	2.71U	1
58-89-9	gamma-BHC (Lindane)	2.71U	1
76-44-8	Heptachlor	2.71U	1
309-00-2	Aldrin	2.71U	1
1024-57-3	Heptachlor epoxide	2.71U	1
959-98-8	Endosulfan I	2.71U	1
60-57-1	Dieldrin	5.31U	1
72-55-9	4,4'-DDE	4.11JP	1
72-30-8	Endrin	4.11JP	1
33213-65-9	Endosulfan II	5.31U	1
72-54-8	4,4'-DDD	6.11	1
1031-07-8	Endosulfan sulfate	5.31U	1
50-29-3	4,4'-DDT	5.31U	1
72-43-5	Methoxychlor	27.1U	1
53494-70-5	Endrin ketone	5.31U	1
7421-93-4	Endrin aldehyde	3.31U	1
5103-71-9	alpha-Chlordane	3.91P	1
5103-74-2	gamma-Chlordane	3.51P	1
8001-35-2	Toxaphene	270 IU	1
12674-11-2	Aroclor-1016	53 IU	1
11104-28-2	Aroclor-1221	110 IU	1
11141-16-5	Aroclor-1232	53 IU	1
53469-21-4	Aroclor-1242	53 IU	1
12672-29-6	Aroclor-1246	53 IU	1
11097-69-1	Aroclor-1254	53 IU	1
11096-02-5	Aroclor-1260	52 IU	1

823

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CLAYTON NOVIContract: 69-DI-0087

ERLO2

Lab Code: CLAYTNCase No.: 18569

SAS No.: _____

SDG No.: EMTS7Matrix: (soil/water) SOILLab Sample ID: 990856Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

x Moisture: 47 decanted: (Y/N) YDate Received: 08/16/92Extraction: (SepF/Cont/Sonic) SONCDate Extracted: 08/18/92Concentrated Extract Volume: 5000 (uL)Date Analyzed: 08/28/92Injection Volume: 1.00 (uL)Dilution Factor: 1.00GC Cleanup: (Y/N) YpH: 6.7Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

<u>319-84-6-----alpha-BHC</u>	<u>3.21U</u>
<u>319-85-7-----beta-BHC</u>	<u>3.21U</u>
<u>319-86-8-----delta-BHC</u>	<u>3.21U</u>
<u>58-89-9-----gamma-BHC (Lindane)</u>	<u>3.21U</u>
<u>76-44-8-----Heptachlor</u>	<u>3.21U</u>
<u>309-00-2-----Aldrin</u>	<u>3.21U</u>
<u>1024-57-3-----Heptachlor epoxide</u>	<u>0.641JP</u>
<u>959-98-8-----Endosulfan I</u>	<u>3.21U</u>
<u>60-57-1-----Dieldrin</u>	<u>6.21U</u>
<u>72-55-9-----4, 4'-DDE</u>	<u>0.631JP</u>
<u>72-20-8-----Endrin</u>	<u>33.1P</u>
<u>33213-65-9-----Endosulfan II</u>	<u>6.21U</u>
<u>72-54-8-----4, 4'-DDD</u>	<u>5.01JP</u>
<u>1031-07-8-----Endosulfan sulfate</u>	<u>5.21U</u>
<u>50-29-3-----4, 4'-DDT</u>	<u>6.21U</u>
<u>72-43-5-----Methoxychlor</u>	<u>32.1U</u>
<u>53494-70-5-----Endrin ketone</u>	<u>6.21U</u>
<u>7421-93-4-----Endrin aldehyde</u>	<u>6.21U</u>
<u>5103-71-9-----alpha-Chlordane</u>	<u>4.31P</u>
<u>5103-74-2-----gamma-Chlordane</u>	<u>3.41</u>
<u>8001-35-2-----Toxaphene</u>	<u>380.1U</u>
<u>12674-11-2-----Aroclor-1016</u>	<u>62.1U</u>
<u>11104-28-2-----Aroclor-1221</u>	<u>130.1U</u>
<u>11141-16-2-----Aroclor-1232</u>	<u>62.1U</u>
<u>53469-21-9-----Aroclor-1242</u>	<u>62.1U</u>
<u>12672-29-5-----Aroclor-1248</u>	<u>62.1U</u>
<u>11097-69-1-----Aroclor-1254</u>	<u>62.1U</u>
<u>11076-82-3-----Aroclor-1260</u>	<u>62.1U</u>

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CLAYTON MOVI

Contract: 62-01-0087

ERL03

Lab Code: CLAYTN Case No.: 18569

SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 994857

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 17 decanted: (Y/N) N

Date Received: 08/12/92

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 08/18/92

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 08/28/92

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.5

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/kg	Q
319-84-6	alpha-BHC	2.010	
319-85-7	beta-BHC	2.010	
319-86-8	delta-BHC	2.010	
58-89-9	gamma-BHC (Lindane)	2.010	
76-44-8	Heptachlor	2.010	
309-00-2	Aldrin	2.010	
1024-57-3	Heptachlor epoxide	2.010	
959-98-8	Endosulfan I	2.010	
60-57-1	Dieldrin	4.010	
73-55-9	4, 4'-DDE	1.615	
72-20-8	Endrin	4.010	
33213-65-9	Endosulfan II	4.010	
7E-54-8	4, 4'-DDD	4.010	
1031-07-8	Endosulfan sulfate	4.010	
50-29-3	4, 4'-DDT	4.010	
72-43-5	Methoxychlor	20.10	
53494-70-5	Endrin ketone	4.010	
7421-93-4	Endrin aldehyde	4.010	
5103-71-9	alpha-Chlordane	2.010	
5103-74-2	gamma-Chlordane	0.7310	
8001-35-2	Toxaphene	200.10	
12674-11-2	Aroclor-1016	40.10	
11104-28-2	Aroclor-1221	81.10	
11141-15-3	Aroclor-1232	40.10	
53469-21-9	Aroclor-1242	40.10	
12672-29-6	Aroclor-1248	40.10	
11097-69-1	Aroclor-1254	40.10	
11096-62-5	Aroclor-1260	40.10	

847 2009-15-92

100000
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

Lab Name: CLAYTON NOVIContract: 68-D1-0087

ERL04

Lab Code: CLAYTN Case No.: 18569 SAS No.: _____ SDG No.: EMT97Matrix: (soil/water) SOIL Lab Sample ID: 990058Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____% Moisture: 10 decanted: (Y/N) N Date Received: 08/18/92Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 08/18/92Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/28/92Injection Volume: 1.00 (uL) Dilution Factor: 1.00GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
319-84-6-----	alpha-BHC	1.9IU	
319-85-7-----	beta-BHC	1.9IU	
319-86-8-----	delta-BHC	1.9IU	
58-89-9-----	gamma-BHC (Lindane)	1.9IU	
76-44-8-----	Heptachlor	1.9IU	
309-00-2-----	Aldrin	1.9IU	
1024-57-3-----	Heptachlor epoxide	1.9IU	
959-98-8-----	Endosulfan I	1.9IU	
60-57-1-----	Dieldrin	3.7IU	
72-55-9-----	4, 4'-DDE	3.7IU	
72-20-8-----	Endrin	3.7IU	
33213-65-9-----	Endosulfan II	3.7IU	
72-54-8-----	4, 4'-DDD	3.7IU	
1031-07-8-----	Endosulfan sulfate	3.7IU	
50-29-3-----	4, 4'-DDT	3.7IU	
72-43-5-----	Methoxychlor	19 IU	
53494-70-5-----	Endrin ketone	3.7IU	
7421-93-4-----	Endrin aldehyde	3.7IU	
5103-71-9-----	alpha-Chlordane	1.9IU	
5103-74-2-----	gamma-Chlordane	1.9IU	
8001-35-2-----	Toxaphene	190 IU	
12674-11-2-----	Aroclor-1016	37 IU	
11104-28-2-----	Aroclor-1221	74 IU	
11141-16-5-----	Aroclor-1232	37 IU	
53469-21-9-----	Aroclor-1242	37 IU	
12672-29-6-----	Aroclor-1248	37 IU	
11097-69-1-----	Aroclor-1254	50 I	
11096-82-5-----	Aroclor-1260	37 IU	

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CLAYTON NOVIContract: 68-D1-0087

ERL05

Lab Code: CLAYTNCase No.: 18569

SAS No.: _____

SDG No.: EMT97Matrix: (soil/water) SOILLab Sample ID: 990859Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 39 decanted: (Y/N) NDate Received: 08/16/92 ^{2 80 09-15-}Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 08/18/92Concentrated Extract Volume: 5000 (uL)Date Analyzed: 08/28/92Injection Volume: 1.00 (uL)Dilution Factor: 1.00GPC Cleanup: (Y/N) YpH: 6.7Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
319-84-6-----	alpha-BHC	2.81U	
319-85-7-----	beta-BHC	2.81U	
319-86-8-----	delta-BHC	2.81U	
58-89-9-----	gamma-BHC (Lindane)	2.81U	
76-44-8-----	Heptachlor	2.81U	
309-00-2-----	Aldrin	2.81U	
1024-57-3-----	Heptachlor epoxide	2.81U	
959-98-8-----	Endosulfan I	2.81U	
60-57-1-----	Dieldrin	5.41U	
72-55-9-----	4, 4' -DDE	5.41U	
72-80-8-----	Endrin	5.41U	
33213-65-9-----	Endosulfan II	5.41U	
72-54-8-----	4, 4' -DDD	5.41U	
1031-07-8-----	Endosulfan sulfate	5.41U	
50-29-3-----	4, 4' -DDT	5.41U	
72-43-5-----	Methoxychlor	28 1U	
53494-70-5-----	Endrin ketone	5.41U	
7421-93-4-----	Endrin aldehyde	5.41U	
5103-71-9-----	alpha-Chlordane	2.81U	
5103-74-2-----	gamma-Chlordane	2.81U	
8001-35-2-----	Toxaphene	280 1U	
12674-11-2-----	Aroclor-1016	54 1U	
11104-28-2-----	Aroclor-1221	110 1U	
11141-16-5-----	Aroclor-1232	54 1U	
53469-21-9-----	Aroclor-1242	54 1U	
12672-29-6-----	Aroclor-1248	54 1U	
11097-69-1-----	Aroclor-1254	54 1U	
11096-82-5-----	Aroclor-1260	54 1U	

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

Lab Name: CLAYTON NOVI

Contract: 68-D1-0087

ERL06

Lab Code: CLAYTN Case No.: 18569 SAS No.: _____

SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990860

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 30 decanted: (Y/N) Y

Date Received: 08/12/92 2 20 09-15

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 08/18/92

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 08/28/92

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.1

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

319-84-6-----alpha-BHC		2.41U
319-85-7-----beta-BHC		2.41U
319-86-8-----delta-BHC		2.41U
58-89-9-----gamma-BHC (Lindane)		2.41U
76-44-8-----Heptachlor		2.41U
309-00-2-----Aldrin		2.41U
1024-57-3-----Heptachlor epoxide		0.471JP
959-98-8-----Endosulfan I		2.41U
60-57-1-----Dieldrin		4.71U
72-53-9-----4, 4'-DDE		4.71U
72-20-8-----Endrin		7.31P
33213-65-9-----Endosulfan II		4.71U
72-54-8-----4, 4'-DDD		2.41J
1031-07-8-----Endosulfan sulfate		4.71U
30-29-3-----4, 4'-DDT		4.71U
72-43-5-----Methoxychlor		24 IU
53494-70-5-----Endrin ketone		4.71U
7421-93-4-----Endrin aldehyde		4.71U
5103-71-9-----alpha-Chlordane		2.61P
5103-74-2-----gamma-Chlordane		2.51JP
8001-35-2-----Toxaphene		240 IU
12674-11-2-----Aroclor-1016		47 IU
11104-28-2-----Aroclor-1221		96 IU
11141-16-3-----Aroclor-1232		+7 IU
53469-21-9-----Aroclor-1242		47 IU
12672-29-6-----Aroclor-1248		+7 IU
11097-69-1-----Aroclor-1254		+7 IU
11096-02-5-----Aroclor-1260		+7 IU

877

ID

PESTICIDE ORGANICS ANALYSIS DATA SHEET

ERL07

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 18569 SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 990861

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 75 decanted: (Y/N) N

Date Received: 08/17/92

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 08/18/92

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/28/92

Injection Volume: 1.00 (uL)

Dilution Factor: 8.00

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	54	IU
319-85-7	beta-BHC	54	IU
319-86-8	delta-BHC	54	IU
58-89-9	gamma-BHC (Lindane)	54	IU
76-44-8	Heptachlor	54	IU
309-00-2	Aldrin	54	IU
1024-57-3	Heptachlor epoxide	54	IU
959-98-8	Endosulfan I	54	IU
60-57-1	Dieldrin	110	IU
72-55-9	4, 4'-DDE	110	IU
72-20-8	Endrin	110	IU
33213-65-9	Endosulfan II	110	IU
72-54-8	4, 4'-DDD	110	IU
1031-07-8	Endosulfan sulfate	110	IU
50-29-3	4, 4'-DDT	110	IU
72-43-5	Methoxychlor	540	IU
53494-70-5	Endrin ketone	110	IU
7421-93-4	Endrin aldehyde	110	IU
5103-71-9	alpha-Chlordane	54	IU
5103-74-2	gamma-Chlordane	54	IU
8001-35-2	Toxaphene	5400	IU
12674-11-2	Aroclor-1016	1100	IU
11104-28-2	Aroclor-1221	2100	IU
11141-16-5	Aroclor-1232	1100	IU
53469-21-9	Aroclor-1242	1100	IU
12672-29-6	Aroclor-1248	1100	IU
11097-69-1	Aroclor-1254	7900	I
11096-82-5	Aroclor-1260	1100	IU

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

Lab Name: CLAYTON NOVIContract: 68-D1-0067

ERL06

Lab Code: CLAYTN Case No.: 18569 SAS No.: _____ SDG No.: EMT57Matrix: (soil/water) SOILLab Sample ID: 990862Sample wt/vol: 30.0 (g/mL) G

Lab File ID: _____

% Moisture: 23 decanted: (Y/N) YDate Received: 08/12/92 2 mo 09-15Extraction: (SepF/Cont/Sonc) SONCDate Extracted: 08/18/92Concentrated Extract Volume: 5000 (uL)Date Analyzed: 08/28/92Injection Volume: 1.00 (uL)Dilution Factor: 1.00GPC Cleanup: (Y/N) YpH: 7.4Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
319-84-6-----	alpha-BHC	2.21U	
319-85-7-----	beta-BHC	2.21U	
319-86-8-----	delta-BHC	2.21U	
58-89-9-----	gamma-BHC (Lindane)	2.21U	
76-44-8-----	Heptachlor	2.21U	
309-00-2-----	Aldrin	2.21U	
1024-57-3-----	Heptachlor epoxide	2.21U	
959-98-8-----	Endosulfan I	2.21U	
60-57-1-----	Dieldrin	4.31U	
72-55-9-----	4, 4'-DDE	7.61	
72-50-6-----	Endrin	4.31U	
33213-65-9-----	Endosulfan II	4.31U	
72-54-8-----	4, 4'-DDD	2.71J	
1031-07-8-----	Endosulfan sulfate	4.31U	
50-29-3-----	4, 4'-DDT	1.21JP	
72-43-5-----	Methoxychlor	22 IU	
53494-70-5-----	Endrin ketone	4.31U	
7421-93-4-----	Endrin aldehyde	4.31U	
5103-71-9-----	alpha-Chlordane	2.21U	
5103-74-2-----	gamma-Chlordane	2.21U	
8001-35-2-----	Toxaphene	220 IU	
12674-11-2-----	Aroclor-1016	43 IU	
11104-26-2-----	Aroclor-1221	87 IU	
11141-16-3-----	Aroclor-1232	43 IU	
53469-21-9-----	Aroclor-1242	43 IU	
12672-29-6-----	Aroclor-1248	43 IU	
11097-69-1-----	Aroclor-1254	43 IU	
11096-62-5-----	Aroclor-1260	43 IU	

ID

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

ERL09

Lab Name: CLAYTON NOVI

Contract: 63-D1-60087

Lab Code: CLAYTN Case No.: 18569

SAS No.: SDG No.: EMT97

Matrix: (soil/water) SOIL

Lab Sample ID: 390863

Sample wt/vol: 30.0 (g/mL) G

Lab File ID:

% Moisture: 55 decanted: (Y/N) Y

Date Received: 08/18/92 2009-15

Extraction: (SepF/Cont/Sonic) SONC

Date Extracted: 08/18/92

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 08/28/92

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.110	
319-85-7	beta-BHC	4.110	
319-86-8	delta-BHC	4.110	
58-89-9	gamma-BHC (Lindane)	4.110	
76-44-8	Heptachlor	4.110	
309-00-2	Aldrin	4.110	
1024-57-3	Heptachlor epoxide	4.110	
959-98-8	Endosulfan I	4.110	
60-57-1	Dieldrin	8.010	
72-33-9	4, 4'-DDE	4.410	
72-20-8	Endrin	8.010	
53213-65-9	Endosulfan II	8.010	
72-54-8	4, 4'-DDD	6.410	
1031-07-8	Endosulfan sulfate	8.010	
50-29-3	4, 4'-DDT	11.10	
72-43-5	Methoxychlor	41.10	
53494-70-5	Endrin ketone	3.010	
7421-93-4	Endrin aldehyde	6.010	
5103-71-9	alpha-Chlordane	4.110	
5103-74-2	gamma-Chlordane	4.110	
8001-35-2	Toxaphene	410.10	
12674-11-6	Aroclor-1016	30.10	
11104-28-2	Aroclor-1221	150.10	
11141-16-5	Aroclor-1232	80.10	
23460-81-9	Aroclor-1242	80.10	
12673-29-6	Aroclor-1248	80.10	
11697-69-1	Aroclor-1254	80.10	
11096-82-5	Aroclor-1260	80.10	

910

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEKY79

Lab Name: ASSOCIATED LABORATORIES Contract: 68D20043

Lab Code: ALI Case No.: 18569 SAS No.: SDG No.: MEKY79

Matrix (soil/water): SOIL MTT Lab Sample ID: MEKY79

Level (low/med): LOW 20000 Date Received: 08/12/92

% Solids: 29.6 00000 2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8590	E	P	
7440-36-0	Antimony	21.7	B	N	P
7440-38-2	Arsenic	22.9		N	F
7440-39-3	Barium	223		E	P
7440-41-7	Beryllium	1.1	D		P
7440-43-9	Cadmium	2.4	D		P
7440-70-2	Calcium	22800		E	P
7440-47-3	Chromium	29.6		E	P
7440-48-4	Cobalt	9.5	D		P
7440-50-8	Copper	176		E	P
7439-89-6	Iron	34400		E	P
7439-92-1	Lead	68.7			F
7439-95-4	Magnesium	7120		E	P
7439-96-5	Manganese	623		E	P
7439-97-6	Mercury	0.25	U		CV
7440-02-0	Nickel	44.8			P
7440-09-7	Potassium	970	B		P
7782-49-2	Selenium	0.71	D	WN	F
7440-22-4	Silver	1.4	B		P
7440-23-5	Sodium	624	B	E	P
7440-28-0	Thallium	0.77	B	N	F
7440-62-2	Vanadium	28.7	B		P
7440-66-6	Zinc	322		E	P
	Cyanide	6.8	U		C

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts: YES

Comments:
ROOTS

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEKY80

Lab Name: ASSOCIATED LABORATORIES Contract: 68D20043

Lab Code: ALI Case No.: 18569 SAS No.: SDG No.: MEKY79

Matrix (soil/water): SOIL Lab Sample ID: MEKY80

Level (low/med): LOW Date Received: 08/12/92

% Solids: 80.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2180	U	E	P
7440-36-0	Antimony	7.8	U	N	P
7440-38-2	Arsenic	1.7	B	WN	F
7440-39-3	Barium	13.7	B	E	P
7440-41-7	Beryllium	0.39	U		P
7440-43-9	Cadmium	0.87	U		P
7440-70-2	Calcium	4460	U	E	P
7440-47-3	Chromium	11.0	U	E	P
7440-48-4	Cobalt	3.4	U		P
7440-50-8	Copper	33.3	U	E	P
7439-89-6	Iron	6940	U	E	P
7439-92-1	Lead	24.2	U		F
7439-95-4	Magnesium	2120	U	E	P
7439-96-5	Manganese	132	U	E	P
7439-97-6	Mercury	0.09	U		CV
7440-02-0	Nickel	6.5	B		P
7440-09-7	Potassium	82.4	U		P
7782-49-2	Selenium	0.25	U	WN	F
7440-22-4	Silver	0.48	U		P
7440-23-5	Sodium	223	B	E	P
7440-28-0	Thallium	0.27	U	N	F
7440-62-2	Vanadium	13.2	U		P
7440-66-6	Zinc	30.4	U	E	P
	Cyanide	2.4	U		C

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: ASSOCIATED LABORATORIES Contract: 68D20043

MENL65

Lab Code: ALI

Case No.: 18569

SAS No.: _____

SDG No.: MEKY79

Matrix (soil/water): SOIL

Lab Sample ID: MENL65

Level (low/med): LOW

000004

Date Received: 08/12/92

% Solids: 38.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2190	E	P	
7440-36-0	Antimony	15.1	U	N	P
7440-38-2	Arsenic	4.9	B	N	F
7440-39-3	Barium	610	E	P	
7440-41-7	Beryllium	3.5		P	J
7440-43-9	Cadmium	1.7	U	P	u J
7440-70-2	Calcium	27000	E	P	
7440-47-3	Chromium	13.3	E	P	J
7440-48-4	Cobalt	6.7	B	P	J
7440-50-8	Copper	31.6	E	P	J
7439-89-6	Iron	156000	E	P	
7439-92-1	Lead	23.2		F	
7439-95-4	Magnesium	2820	E	P	
7439-96-5	Manganese	210	E	P	J
7439-97-6	Mercury	0.19	U	CV	
7440-02-0	Nickel	8.7	B	P	J
7440-09-7	Potassium	245	B	P	
7782-49-2	Selenium	0.57	U	WN	F
7440-22-4	Silver	0.94	U		P
7440-23-5	Sodium	526	B	E	P
7440-28-0	Thallium	0.62	B	WN	F
7440-62-2	Vanadium	11.4	B		P
7440-66-6	Zinc	108	E	P	J
	Cyanide	5.0	U	C	

Color Before: BROWN

Clarity Before: _____

Texture: MEDIUM

Color After: BROWN

Clarity After: _____

Artifacts: YES

Comments:

LEAVES AND ROOTS

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MENL66

Lab Name: ASSOCIATED LABORATORIES Contract: 68D20043

Lab Code: ALI Case No.: 18569 SAS No.: SDG No.: MEKY79

Matrix (soil/water): SOIL

Lab Sample ID: MENL66

Level (low/med): LOW

Date Received: 08/12/92

% Solids: 57.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7460	E	P	
7440-36-0	Antimony	11.1	U	N	P u J
7440-38-2	Arsenic	4.4		N	F J
7440-39-3	Barium	133	E	P	
7440-41-7	Beryllium	0.75	B	P	J
7440-43-9	Cadmium	1.2	U	P	u J
7440-70-2	Calcium	21100	E	P	
7440-47-3	Chromium	45.6	E	P	J
7440-48-4	Cobalt	6.3	B	P	J
7440-50-8	Copper	56.1	E	P	J
7439-89-6	Iron	23600	E	P	
7439-92-1	Lead	36.9		F	
7439-95-4	Magnesium	6730	E	P	
7439-96-5	Manganese	197	E	P	J
7439-97-6	Mercury	0.13	U	CV	
7440-02-0	Nickel	17.6		P	J
7440-09-7	Potassium	1050	B	P	
7782-49-2	Selenium	3.8	U	N	F u J
7440-22-4	Silver	0.69	U	P	
7440-23-5	Sodium	472	B	E	P
7440-28-0	Thallium	0.41	U	WN	F u J
7440-62-2	Vanadium	27.9		P	J
7440-66-6	Zinc	132	E	P	J
	Cyanide	3.5	U	C	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:
ROOTS

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MENL67

Lab Name: ASSOCIATED LABORATORIES Contract: 68D20043

Lab Code: ALI Case No.: 18569 SAS No.: SDG No.: MEKY79

Matrix (soil/water): SOIL

Lab Sample ID: MENL67

Level (low/med): LOW

Date Received: 08/12/92

% Solids: 69.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2570	E	P	
7440-36-0	Antimony	9.0	B	N	P
7440-38-2	Arsenic	3.1		N	F
7440-39-3	Barium	26.3	B	E	P
7440-41-7	Beryllium	0.45	B		P
7440-43-9	Cadmium	1.0	B		P
7440-70-2	Calcium	5080	E	P	
7440-47-3	Chromium	9.6	E	P	J
7440-48-4	Cobalt	3.9	B		P
7440-50-8	Copper	16.1	E	P	J
7439-89-6	Iron	7630	E	P	
7439-92-1	Lead	27.1		F	
7439-95-4	Magnesium	2330	E	P	
7439-96-5	Manganese	210	E	P	J
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	6.2	B		P
7440-09-7	Potassium	298	B		P
7782-49-2	Selenium	0.31	B	WN	F
7440-22-4	Silver	0.56	U		P
7440-23-5	Sodium	218	B	E	P
7440-28-0	Thallium	0.34	B	N	F
7440-62-2	Vanadium	14.3			P
7440-66-6	Zinc	63.2	E	P	J
	Cyanide	2.9	U		C

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: BROWN

Clarity After:

Artifacts: YES

Comments:

STEMS AND ROOTS

EPA SAMPLE NO.

1
INORGANIC ANALYSES DATA SHEET

MENL68

Lab Name: ASSOCIATED LABORATORIES Contract: 68D20043

Lab Code: ALI Case No.: 18569 SAS No.: SDG No.: MEKY79

Matrix (soil/water): SOIL Lab Sample ID: MENL68

Level (low/med): LOW 000007 Date Received: 08/12/92

% Solids: 87.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8730	E	P	
7440-36-0	Antimony	7.2	U	N	P
7440-38-2	Arsenic	3.6		N	F
7440-39-3	Barium	156		E	P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	6.7			P
7440-70-2	Calcium	37800	E	P	
7440-47-3	Chromium	152		E	P
7440-48-4	Cobalt	7.6	B		P
7440-50-8	Copper	175		E	P
7439-89-6	Iron	17600		E	P
7439-92-1	Lead	87.3			F
7439-95-4	Magnesium	9530		E	P
7439-96-5	Manganese	618		E	P
7439-97-6	Mercury	0.09			CV
7440-02-0	Nickel	49.6			P
7440-09-7	Potassium	737	B		P
7782-49-2	Selenium	0.29	B	WN	F
7440-22-4	Silver	4.3			P
7440-23-5	Sodium	276	B	E	P
7440-28-0	Thallium	0.27	U	WN	F
7440-62-2	Vanadium	24.6			P
7440-66-6	Zinc	256		E	P
	Cyanide	2.7	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:
ROOTS AND STONES

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MENL94

Lab Name: ASSOCIATED LABORATORIES Contract: 68D20043

Lab Code: ALI Case No.: 18569 SAS No.: SDG No.: MEKY79

Matrix (soil/water): SOIL

Lab Sample ID: MENL94

Level (low/med): LOW

000008

Date Received: 08/12/92

% Solids: 88.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7650	E	P	
7440-36-0	Antimony	6.8	U	N	P
7440-38-2	Arsenic	2.8		N	F
7440-39-3	Barium	130	E	P	
7440-41-7	Beryllium	0.77	B	P	J
7440-43-9	Cadmium	6.3		P	J
7440-70-2	Calcium	30400	E	P	
7440-47-3	Chromium	126	E	P	J
7440-48-4	Cobalt	7.6	B	P	J
7440-50-8	Copper	126	E	P	J
7439-89-6	Iron	16000	E	P	
7439-92-1	Lead	50.5		F	
7439-95-4	Magnesium	7380	E	P	
7439-96-5	Manganese	563	E	P	J
7439-97-6	Mercury	0.08		CV	
7440-02-0	Nickel	41.4		P	J
7440-09-7	Potassium	678	B	P	
7782-49-2	Selenium	2.4	B	WN	F
7440-22-4	Silver	3.4		P	
7440-23-5	Sodium	271	B	E	P
7440-28-0	Thallium	0.26	B	WN	F
7440-62-2	Vanadium	23.6		P	J
7440-66-6	Zinc	212	E	P	J
	Cyanide	2.2	U	C	

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: BROWN

Clarity After:

Artifacts: YES

Comments:

GRAVEL AND ROOTS

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MENL95

Lab Name: ASSOCIATED LABORATORIES Contract: 68D20043

Lab Code: ALI Case No.: 18569 SAS No.: SDG No.: MEKY79

Matrix (soil/water): SOIL Lab Sample ID: MENL95

Level (low/med): LOW Date Received: 08/12/92

% Solids: 65.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25000	E	P	
7440-36-0	Antimony	9.8	U	N	P
7440-38-2	Arsenic	11.3		N	F
7440-39-3	Barium	560		E	P
7440-41-7	Beryllium	1.9			P
7440-43-9	Cadmium	25.7			J
7440-70-2	Calcium	220000	E	P	
7440-47-3	Chromium	1170	E	P	J
7440-48-4	Cobalt	16.2		P	J
7440-50-8	Copper	1260	E	P	J
7439-89-6	Iron	42400	E	P	
7439-92-1	Lead	346		F	
7439-95-4	Magnesium	14300	E	P	
7439-96-5	Manganese	770	E	P	J
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	316		P	J
7440-09-7	Potassium	232	P	P	
7782-49-2	Selenium	3.3	U	WN	F
7440-22-4	Silver	46.2			P
7440-23-5	Sodium	602	P	E	P
7440-28-0	Thallium	0.36	U	WN	F
7440-62-2	Vanadium	44.1			P
7440-66-6	Zinc	1740	E	P	J
	Cyanide	3.6	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MENL96

Lab Name: ASSOCIATED LABORATORIES Contract: 68D20043

Lab Code: ALI Case No.: 18569 SAS No.: SDG No.: MEKY79

Matrix (soil/water): SOIL

Lab Sample ID: MENL96

Level (low/med): LOW

000010

Date Received: 08/12/92

% Solids: 68.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3580	E	P	
7440-36-0	Antimony	9.0	N	P	J
7440-38-2	Arsenic	2.8	N	F	J
7440-39-3	Barium	40.6	E	P	
7440-41-7	Beryllium	0.52	E	P	J
7440-43-9	Cadmium	1.2	E	P	J
7440-70-2	Calcium	8470	E	P	
7440-47-3	Chromium	35.8	E	P	J
7440-48-4	Cobalt	3.9	N	P	J
7440-50-8	Copper	46.3	E	P	J
7439-89-6	Iron	9720	E	P	
7439-92-1	Lead	25.4		F	
7439-95-4	Magnesium	2930	E	P	
7439-96-5	Manganese	207	E	P	J
7439-97-6	Mercury	0.12	U	CV	
7440-02-0	Nickel	16.8		P	J
7440-09-7	Potassium	285	E	P	
7782-49-2	Selenium	0.35	E	WN	J
7440-22-4	Silver	0.56	U	P	
7440-23-5	Sodium	227	E	P	
7440-28-0	Thallium	0.32	U	N	J
7440-62-2	Vanadium	16.2		P	J
7440-66-6	Zinc	93.7	E	P	J
	Cyanide	3.4	U	C	

Color Before: BROWN

Clarity Before: _____

Texture: MEDIUM

Color After: BROWN

Clarity After: _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MENL97

Lab Name: ASSOCIATED LABORATORIES Contract: 68D20043

Lab Code: ALI Case No.: 18569 SAS No.: SDG No.: MEKY79

Matrix (soil/water): SOIL Lab Sample ID: MENL97

Level (low/med): LOW 000011 Date Received: 08/12/92

% Solids: 18.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11500	E	P	
7440-36-0	Antimony	33.8	W	N	P
7440-38-2	Arsenic	4.9	B	N	F
7440-39-3	Barium	292		E	P
7440-41-7	Beryllium	2.0	B		P
7440-43-9	Cadmium	9.6			P
7440-70-2	Calcium	23800		E	P
7440-47-3	Chromium	45.0		E	P
7440-48-4	Cobalt	14.7	W		P
7440-50-8	Copper	154		E	P
7439-89-6	Iron	66400		E	P
7439-92-1	Lead	100			F
7439-95-4	Magnesium	6400		E	P
7439-96-5	Manganese	796		E	P
7439-97-6	Mercury	0.75			CV
7440-02-0	Nickel	43.9			P
7440-09-7	Potassium	1070	B		P
7782-49-2	Selenium	1.2	W	N	F
7440-22-4	Silver	2.1	U		P
7440-23-5	Sodium	1470	B	E	P
7440-28-0	Thallium	1.3	B	N	F
7440-62-2	Vanadium	32.8	B		P
7440-66-6	Zinc	879		E	P
	Cyanide	12.1	U		C

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:

STEMS AND ROOTS

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

Lab Name: ASSOCIATED LABORATORIES Contract: 68D20043

MENL98

Lab Code: ALI Case No.: 18569 SAS No.: SDG No.: MEKY79

Matrix (soil/water): SOIL Lab Sample ID: MENL98

Level (low/med): LOW Date Received: 08/12/92

% Solids: 72.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3600		E	P
7440-36-0	Antimony	8.5	U	N	P
7440-38-2	Arsenic	0.91	B	WN	F
7440-39-3	Barium	27.7	B	E	P
7440-41-7	Beryllium	0.42	U		P
7440-43-9	Cadmium	0.95	U		P
7440-70-2	Calcium	4730		E	P
7440-47-3	Chromium	11.1		E	P
7440-48-4	Cobalt	4.0	B		P
7440-50-8	Copper	11.6		E	P
7439-89-6	Iron	6320		E	P
7439-92-1	Lead	95.1			F
7439-95-4	Magnesium	2290		E	P
7439-96-5	Manganese	86.8		E	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	7.1	B		P
7440-09-7	Potassium	351	B		P
7782-49-2	Selenium	0.29	B	WN	P
7440-22-4	Silver	0.53	U		P
7440-23-5	Sodium	148	B	E	P
7440-28-0	Thallium	0.32	U	N	F
7440-62-2	Vanadium	16.5			P
7440-66-6	Zinc	26.8		E	P
	Cyanide	3.0	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MENL99

Lab Name: ASSOCIATED LABORATORIES Contract: 68D20043

Lab Code: ALI Case No.: 18569 SAS No.: SDG No.: MEKY79

Matrix (soil/water): SOIL

Lab Sample ID: MENL99

Level (low/med): LOW

000013

Date Received: 08/12/92

% Solids: 42.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4450	E	P	
7440-36-0	Antimony	14.6	U	N	P
7440-38-2	Arsenic	2.5	B	N	F
7440-39-3	Barium	63.4	B	E	P
7440-41-7	Beryllium	0.75	B		P
7440-43-9	Cadmium	1.6	U		P
7440-70-2	Calcium	23200		E	P
7440-47-3	Chromium	22.1		E	P
7440-48-4	Cobalt	6.5	B		P
7440-50-8	Copper	23.4		E	P
7439-89-6	Iron	12100		E	P
7439-92-1	Lead	12.7			F
7439-95-4	Magnesium	8690		E	P
7439-96-5	Manganese	543		E	P
7439-97-6	Mercury	0.16	U		CV
7440-02-0	Nickel	12.1	B		P
7440-09-7	Potassium	366	B		P
7782-49-2	Selenium	0.45	U	WN	F
7440-22-4	Silver	0.91	U		P
7440-23-5	Sodium	253	B	E	P
7440-28-0	Thallium	0.49	U	N	F
7440-62-2	Vanadium	17.7	B		P
7440-66-6	Zinc	69.9		E	P
	Cyanide	5.4	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments: